COUNTY: GRE

SWL MAR 13 ORDER OF SHEETS

Section No. 1

Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities

Miscellaneous Quantities Section No. 3

Plan and Profile (Includes Erosion Control) Section No. 5

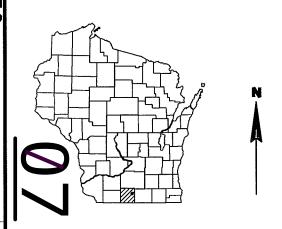
Standard Detail Drawings Section No. 6

Sian Plates Section No. 7 Structure Plans Section No. 8

Computer Earthwork Data Section No. 9

Section No. 9 Cross Sections

TOTAL SHEETS = 46



DESIGN DESIGNATION

= 1.300 A.A.D.T. 2013 A.A.D.T. 2033 = 1,700 D.H.V. 2033 = 170 D.D. = 60/40 = 6.4% DESIGN SPEED = 55 MPH **ESALS** = 211,700

CONVENTIONAL SYMBOLS

1////// CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

Ø

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

MARSH OR ROCK PROFILE

(To be noted as such)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

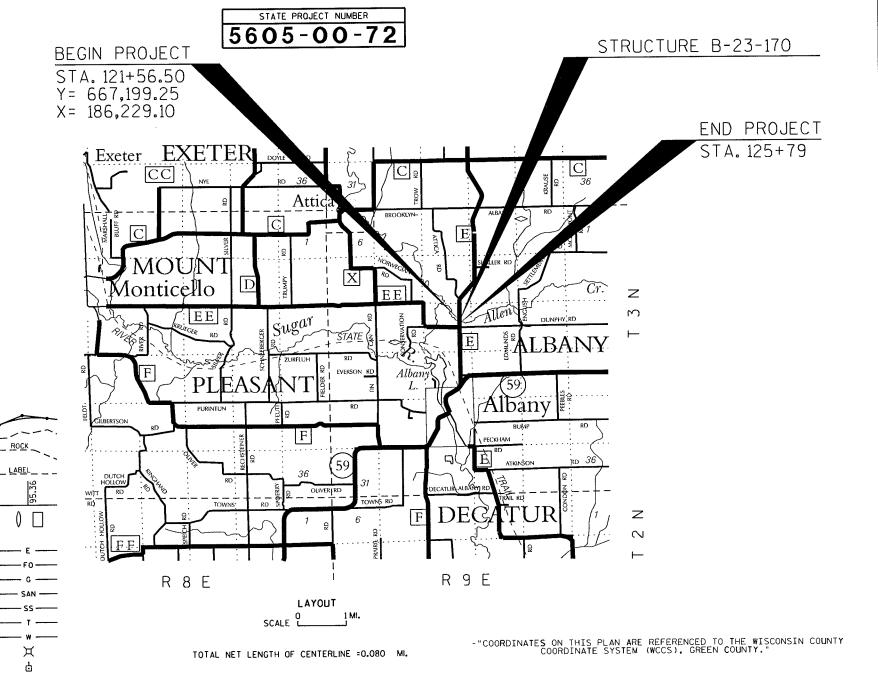
PLAN OF PROPOSED IMPROVEMENT

ALBANY-STH 92

(ALLEN CREEK BRIDGE B-23-0170)

CTH E

GREEN COUNTY



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5605-00-72 ACCEPTED FOR

9/27/2012)

ORIGINAL PLANS PREPARED BY

2901 International Lane, Suite 300 Madison, WI 53704-3133 608-242-7779 1-800-446-0679 Fax: 608-242-5664



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY Surveyor

MSA PROFESSIONAL SERVICES MSA PROFESSIONAL SERVICES Designer

Monogement Consultant

C.O. Examiner

APPROVED FOR DEPARTMENT

DATE: 10/15/12 Kinbuch A. John (Management Consultant Signature)

PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 10

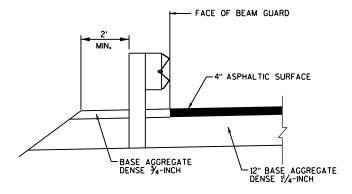
KJOHNSON ENGINEERS, INC.

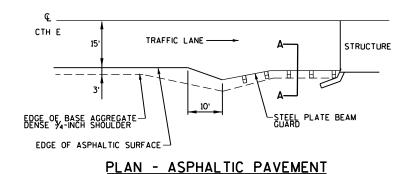
COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

CLEAR ZONE = 30' SEED MIXTURE #20 & FERTILIZER TYPE B LIMITS MULCHING LIMITS 23.3' SEEDING MIXTURE #20 & FERTILIZER TYPE B LIMITS SALVAGED MULCHING LIMITS TOPSOIL LIMIT SALVAGED TOPSOIL 0.9' LIMITS -POINT REFERRED T ON PROFILE AS & OR R/W OR R/W 4.0% 2.0% 2.0% 4.0% POINT REFERRED TO ON CROSS SECTIONS AS & 4" ASPHALTIC SURFACE *SEE SPECIAL DITCH ELEVATION — ON CROSS SECTION SHEETS (TYP.) -BASE AGGREGATE DENSE 3/4-INCH (TYP.) TYPICAL SECTION -12" BASE AGGREGATE DENSE 1 1/4-INCH





SHOULDER AT BEAM GUARD

SECTION A-A THRU BEAM GUARD

RUNOFF COEFFICIENT TABLE

						HYDROLOGIC SC	OIL GROUP						
		A			В			C	;	D			
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19	.20 .26	.24	.19 .25	.22	.26	.20	.23	.30	.20 .27	.25	.30	
SIDE SLOPE- TURF			.25 .32			.27			.28			.30	
PAVEMENT:							•		•	•			
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS .7585													
ROOFS						.7595							
GRAVEL ROADS,	SHOULDE	ERS				.4060							

HWY: CTH E

TOTAL PROJECT AREA = 1.32 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.77 ACRES

COUNTY: GREEN

TYPICAL SECTIONS & GENERAL NOTES

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88 BENCHMARK NO. 1, LOCATED APPROXIMATELY 400 FEET SOUTH OF THE EXISTING BRIDGE. A BRONZE WISDOT GEODETIC SURVEY CONTROL STATION "1H27", ELEVATION 818.15 NAVD 88.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH A BENCHMARK MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

THE 4" ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2 ½" LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 1 ¾" UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

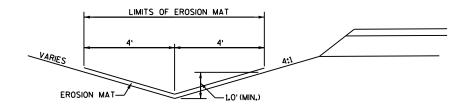
SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO BRIDGE REMOVAL.

TEMPORARY DITCH CHECKS, IF NEEDED, SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

WETLANDS EXIST FROM STA. 120+09 TO STA. 123+20, RT & LT. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPT IN THESE AREAS.

PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED, AND COMPACTED.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.



EROSION MAT DITCH DETAIL

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: MICHAEL J. STATZ, P.E. 2901 INTERNATIONAL LANE, SUITE 300 MADISON, WI 53704-3133 PHONE: (608) 242-7779 EMAIL: MSTATZ@MSA-PS.COM

GREEN COUNTY
ATTN: JEFF WUNSCHEL, COMMISSIONER
2813 6TH STREET
P.O. BOX 259
MONROE, WI 53566
PHONE: (608) 328-9411
EMAIL: JWUNSCHEL@GREENCOUNTYWLORG

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
ATTN.: AMANDA CUSHMAN
ENVIRONMENTAL REVIEW AND ANALYSIS SPECIALIST
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711-5397
PHONE: (608) 275-3485
EMAIL: AMANDA.CUSHMAN@WISCONSIN.GOV

UTILITIES

ELECTRIC:
ALLIANT ENERGY
ATTN: STEVE LARSON
1915 STH 69
MONROE, WI 53818
PHONE: (608) 328-5339
EMAIL: STEVELARSON@ALLIANTENERGY.COM

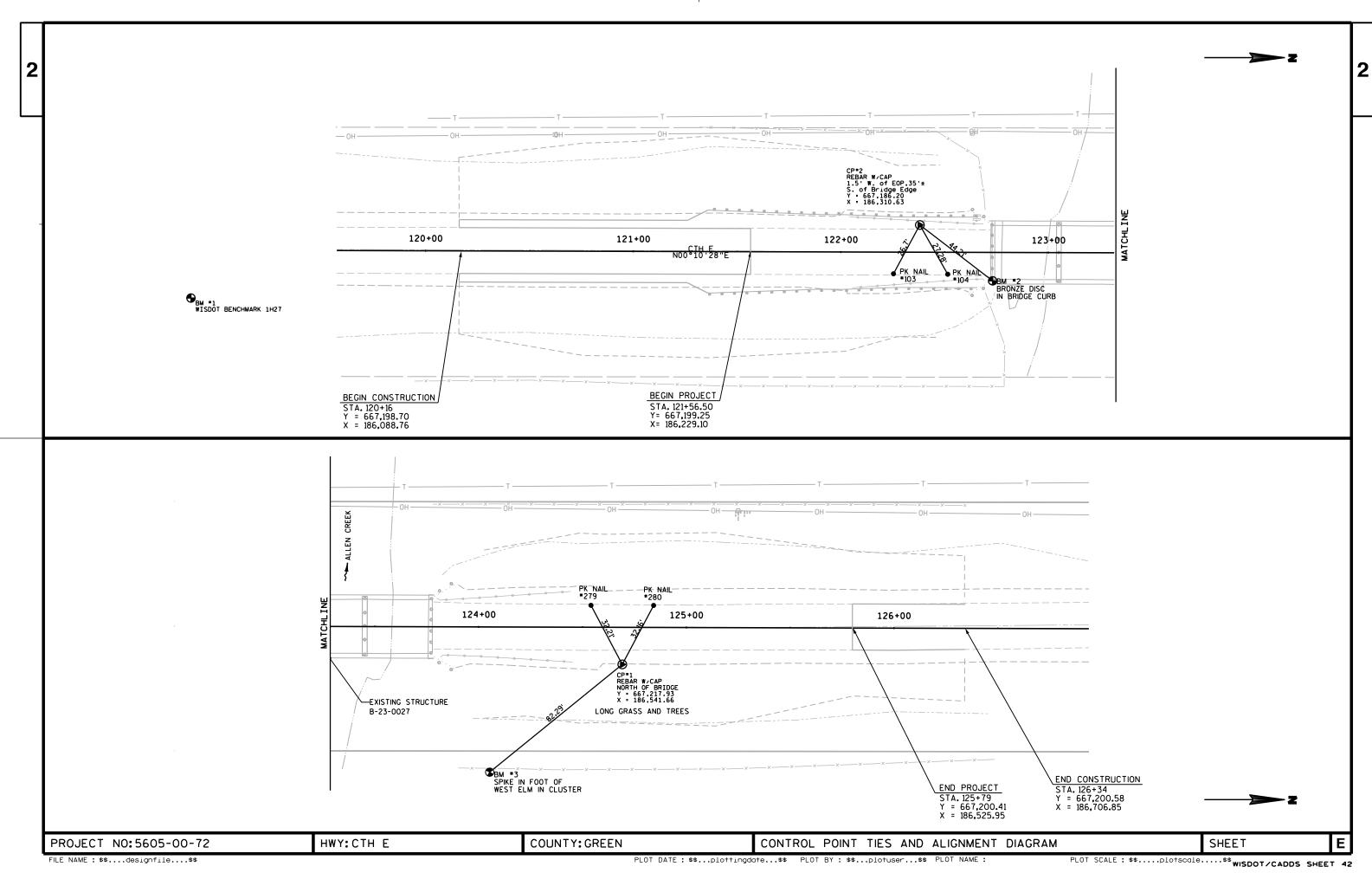
TELEPHONE:
TDS TELECOM
ATTN: DAREN NEUENSCHWANDER
827 16TH AVENUE
P.O. BOX 88
MONROE, WI 53566
PHONE: (608) 328-1158
EMAIL: DAREN.NEUENSCHWANDER@TDSELECOM.COM

**-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



Toll Free (800) 242-8511 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

SHEET



DATE 09 LINE	JAN13	E S	TIMAT	E OF QUAN	T I T I E S 5605-00-72
NUMBER 0010	I TEM 203. 0700. S	ITEM DESCRIPTION REMOVING OLD STRUCTURE OVER WATERWAY WITH DEBRIS CAPTURE SYSTEM (STATION) 01. 123+25	UNI T LS	TOTAL 1.000	QUANTI TY 1. 000
0020 0030	205. 0100 206. 1000	EXCAVATION COMMON EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-23-0170	CY LS	769. 000 1. 000	769. 000 1. 000
0040 0050	208. 0100 210. 0100	BORROW BACKFILL STRUCTURE	CY CY	865. 000 260. 000	865. 000 260. 000
0060	213. 0100	FINISHING ROADWAY (PROJECT) 01. 5605-00-72	EACH	1. 000	1. 000
0070	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	125.000	125.000
0080 0090	305. 0120 311. 0110	BASE AGGREGATE DENSE 1 1/4-INCH BREAKER RUN	TON TON	1, 500. 000 260. 000	1, 500. 000 260. 000
0100	455. 0605	TACK COAT	GAL	35. 000	35. 000
0110	465. 0105	ASPHALTI C SURFACE	TON	320.000	320. 000
0120	502.0100	CONCRETE MASONRY BRIDGES	CY	422.000	422.000
0130	502. 3200	PROTECTI VE SURFACE TREATMENT	SY	610.000	610.000
0140 0150	505. 0405 505. 0605	BAR STEEL REINFORCEMENT HS BRIDGES BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB LB	8, 720. 000 57, 660. 000	8, 720. 000 57, 660. 000
0160	513. 4060	RAILING TUBULAR TYPE M (STRUCTURE) 01. B-23-0170	LS	1. 000	1. 000
0170	516. 0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14.000	14.000
0180	550. 1100	PILING STEEL HP 10-INCH X 42 LB	LF	1, 360. 000	1, 360. 000
0190	606. 0300	RIPRAP HEAVY	CY	200.000	200.000
0200	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF 	140. 000	140. 000
0210	614. 0920	SALVAGED RAIL	LF	260.000	260.000
0220 0230	614. 2300 614. 2500	MGS GUARDRAIL 3 MGS THRIE BEAM TRANSITION	LF LF	150. 000 158. 000	150. 000 158. 000
0230	614. 2610	MGS GUARDRAIL TERMINAL EAT	EACH	4. 000	4. 000
0250	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000
0260 0270	625. 0500 627. 0200	SALVAGED TOPSOIL **P** MULCHING **P**	SY SY	2, 050. 000 1, 870. 000	2, 050. 000 1, 870. 000
0270	628. 1504	SILT FENCE	LF	1, 400. 000	1, 870. 000
0280	628. 1520	SILT FENCE MAINTENANCE	LF	2, 800. 000	2, 800. 000
0300	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	2. 000	2. 000
0310	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2.000	2.000
0320 0330	628. 2004 628. 2006	EROSION MAT CLASS I TYPE B EROSION MAT URBAN CLASS I TYPE A	SY SY	500. 000 50. 000	500. 000 50. 000
0340	628. 6005	TURBIDITY BARRIERS	SY	160. 000	160. 000
0350	628. 7504	TEMPORARY DITCH CHECKS	LF	50. 000	50. 000
0360	628. 7560	TRACKING PADS	EACH	2. 000	2.000
0370 0380	629. 0210 630. 0120	FERTILIZER TYPE B **P** SEEDING MIXTURE NO. 20 **P**	CWT LB	2. 000 100. 000	2. 000 100. 000
0390	630. 0120	SEEDING MIXTURE NO. 20 ""P"" SEEDING TEMPORARY **P**	LB LB	25. 000	25. 000
0400	631. 1100	SOD EROSION CONTROL	SY	50. 000	50. 000
0410 0420	634. 0612 634. 0614	POSTS WOOD 4X6-INCH X 12-FT POSTS WOOD 4X6-INCH X 14-FT	EACH EACH	4. 000 1. 000	4. 000 1. 000
0420	634. 0614	POSTS WOOD 4X6-INCH X 14-F1 POSTS WOOD 4X6-INCH X 16-FT	EACH	1. 000	1. 000
0440	637. 0202	SIGNS REFLECTIVE TYPE II	SF	27. 000	27. 000
0450	638. 2602	REMOVING SIGNS TYPE II	EACH	1. 000	1. 000
0460 0470	638. 3000 642. 5001	REMOVING SMALL SIGN SUPPORTS FIELD OFFICE TYPE B	EACH EACH	2. 000 1. 000	2. 000 1. 000
0470	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 5605-00-72		1. 000	1. 000
0490	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	390.000	390. 000

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3	

DATE 09 LINE	JAN13	E S	TIMAT	E OF QUAN	T I T I E S 5605-00-72
NUMBER 0500	I TEM 646. 0103	ITEM DESCRIPTION PAVEMENT MARKING PAINT 4-INCH	UNI T LF	TOTAL 2, 081, 000	QUANTI TY 2, 081, 000
0510	650, 4500	CONSTRUCTION STAKING SUBGRADE	 LF	494.000	494.000
0520	650. 5000	CONSTRUCTION STAKING BASE	LF	494. 000	494.000
0530	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-23-0170	LS	1. 000	1. 000
0540	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5605-00-72	LS	1. 000	1. 000
0550	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	494. 000	494. 000
0560 0570	690. 0150 715. 0502	SAWING ASPHALT INCENTIVE STRENGTH CONCRETE STRUCTURES	LF DOL	435. 000 2, 532. 000	435. 000 2, 532. 000
0370	713.0302	INCLINITY STRENGTH CONCRETE STRUCTURES	DOL	2, 332. 000	2, 332. 000

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
			Cut (2)	EBS Excavation (3)				Factor			(item #208.0100)	
1	120+16 - 122+63	SOUTH CTH E	290	0	0	290	914	1142	-852	-852	852	
2	123+87 -126+34	NORTH CTH E	351	0	0	351	291	364	-13	-13	13	
	STRUC	TURE B-23-170	0	0	0	0	0	0	0	0	0	
	UNDIS	TRIBUTED EBS	0	128	0	0	0	0	0	0	0	
•	_	_	641	128	0	641	1205	1506	-865	-865	865	
Grand Total			641	128	0	641	1205	1506	-865	-865	865	
·	<u>-</u>	•	7	80	·	·	·	·	·	·	·	·

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.

HWY: CTH E

- 3) EBS Excavation to be backfilled with Breaker Run material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

COUNTY: GREEN

		BASE	AGGREGATE	DENSE					STEEL PLA	TE BEAM GU	ARD					S	LT FENCE		
4 TE 00 DV	0T4 TIO		ATION LO	OATION	(305.0110) 3/4-INCH	(305.0120) 1 1/4-INCH					(614.2300) MGS	` MGS ´	(614.2610) MGS	04 TT 00 DV		074701	LOOATON	(628.1504)	(628.1520) MAINTENANCE
ATEGORY 0010	STATION 120+16			CATION T & LT	TON 50	TON 630					GUARDRAIL 3	. THRIE BEAM	TERMINAL EAT	CATEGORY 0010	STATION 120+16	STATION 122+83	LOCATION LT	LF 320	LF 640
0010	120+16			T & LT	75	870	CATEGORY	STATION	TO STATION	LOCATION	-	LF	EACH	0010	120+16	122+63	RT	320 320	640
	123+01		T TOTALS	IXLI	125	1.500	0010	121+36	121+89	LT	-		1		123+69	126+34	LT	305	610
					123	1,500	0010	121+89	122+27	LT	37.5	-	-		123+69	126+34	RT	315	630
								122+27	122+66	LT	-	39.5	-			UNDISTRIBUT		140	280
								121+36	121+89	RT	-	-	1			ROJECT TOT		1,400	2,800
		E	BREAKER RUI	١				121+89	122+27	RT	37.5	-	-					-,	_,
								122+27	122+66	RT	-	39.5	-						
				•	311.0110)			123+84	124+23	LT	-	39.5	-						
	CATEGOR			TATION	TON			124+23	124+61	LT	37.5	-	-						
	0010		NDISTRIBUTE		260			124+61	125+14	LT	-	-	1				OSION MAT		
		PI	ROJECT TOTA	\L	260			123+84	124+23	RT	-	39.5				ER	OSION IVIA I		
								124+23	124+61	RT	37.5	-	-					(000,0004)	(000,0000)
		۸۵۶	NIALTIC CLIDE	· ^ C E				124+61	125+14	RT	-	-	1					(628.2004) CLASS I	(628.2006) URBAN CLAS
		ASP	PHALTIC SURF	ACE				PROJ	ECT TOTALS		150	158	4					TYPE B	TYPE A
				(455.0	605) (465.01	0E)								CATEGORY	STATION	STATION	LOCATION		SY
				TACK		03)			SA	ALVAGED RAI	L			0010	120+76	122+47	LT	230	-
	CATEGORY	STATION	TO STATIC										_		120+76	122+47	RT	190	-
	0010	120+16	122+63									(614.0920)			124+02	124+23	LT	30	-
		123+87	126+34	2				CATEGORY	STATION	TO STATION	LOCATION	` LF				UNDISTRIBUT	ΈD	50	50
		PROJ	ECT TOTALS	3	320			0010	122+04	122+69	LT	65	_		F	ROJECT TOT	ALS	500	50
									122+04	122+69	RT	65							
									123+80	124+45	LT	65							
		S	AWING ASPH	ALT					123+80	124+45	RT	65	_						
				<u> </u>					PRO	OJECT TOTAL		260							
					(690.015	0)													
. (CATEGORY	STATION	TO STATION	LOCATIO	•	· 			MORILIZAT	TIONS EROSIO	ONI CONITROI								
	0010	120+16	121+56.5	LT & RT	281				IVIODILIZA I	IIONS ENUSIC	JIN CONTROL		_			TEMPO	RARY DITCH CH	HECKS	
		121+56.5		LT & RT	22						(628.1905)	(628.1910)							
		125+79		LT & RT	22							EMERGENCY						(628.7	
		125+79	126+34	LT & RT				CATEGOR	/ DESCRI	IPTION	EACH	EACH				RY STATIC			
			PROJECT TO	ΓAL	435			0010	PROJECT 5		2	2	_		0010		NDISTRIBUTED		
									PROJECT		2	2	=			PF	OJECT TOTAL	. 50)

MISCELLANEOUS QUANTITIES

SHEET

TURBIDITY BARRIERS

 CATEGORY
 STATION
 LOCATION
 SY

 0010
 123+12
 LT/RT
 80

 123+45
 LT/RT
 80

 PROJECT TOTALS
 160

TRACKING PADS

047500004	074701	(628.7560)
CATEGORY	STATION	EACH
0010	121+56	1
	125+79	1
	PROJECT TOTALS	2

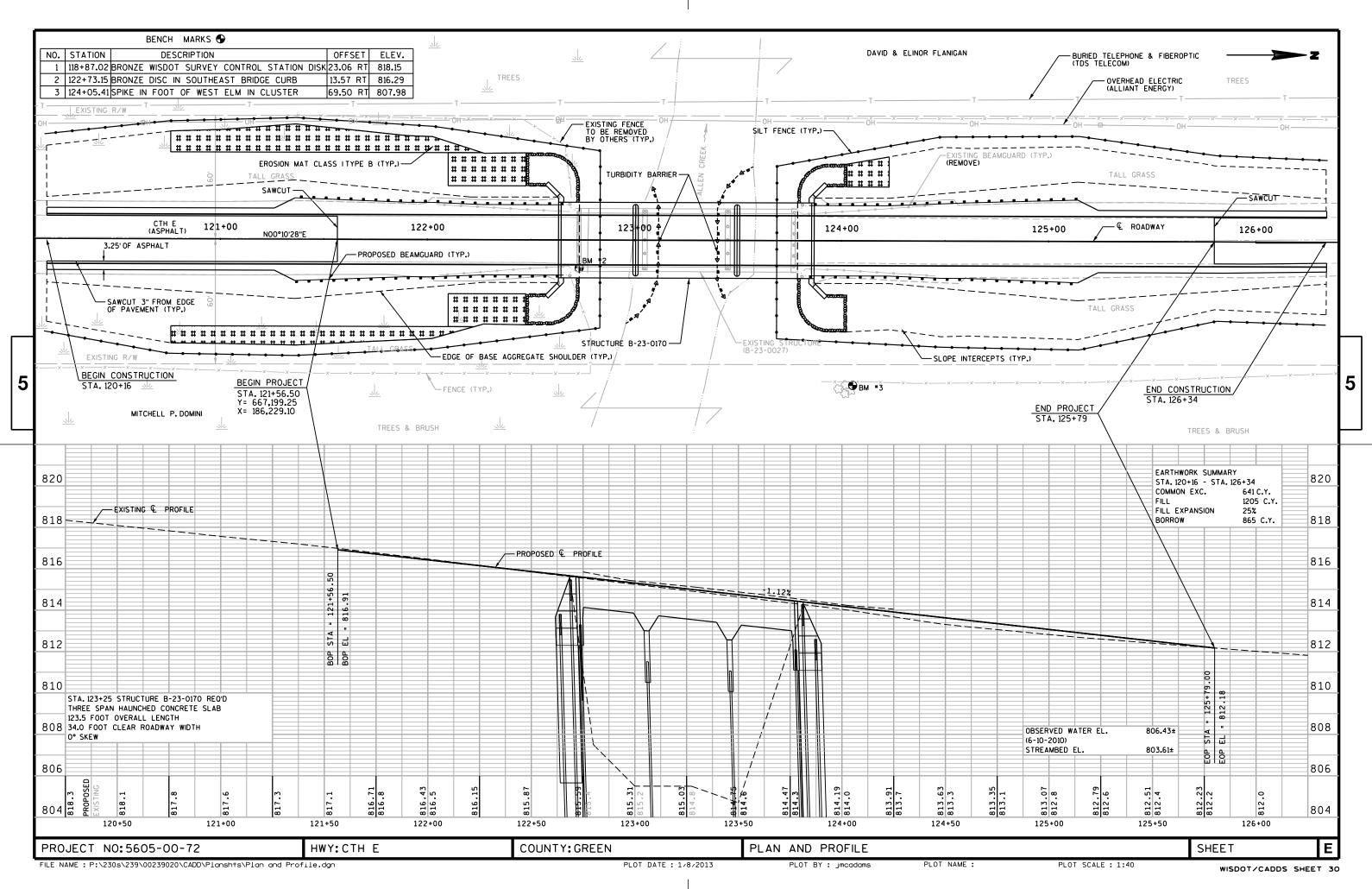
					FINISHING ITEM	MS							PER	MANENT SIGNIN	G		
OATE OODV	OTATION	TO OTATION	LOCATION	(625.0500) SALVAGED TOPSOIL	(627.0200) MULCHING	(629.0210) FERTILIZER TYPE B	(630.0120) SEEDING MIXTURE NO. 20	(630.0200) SEEDING TEMPORARY	(631.1100) SOD EROSION CONTROL					(637.0202) SIGNS REFLECTIVE	(634.0612) POSTS WOOD 4x6-INCH	(634.0614) POSTS WOOD 4x6-INCH	(634.0616) POSTS WOOD 4x6-INCH
CATEGORY	STATION	TO STATION	LOCATION	SY	SY	CWT	LB	LB	SY					TYPE II	12-FT	14-FT	16-FT
0010	120+16	122+63	LT	680	450	0.5	27	-	-	CATEGOR	Y CODE	STATION	LOCATION	SF	EACH	EACH	EACH
	120+16	122+63	RT	540	360	0.5	25	-	-	0010	D1-2	121+90	LT	15.0	-	1	1
	123+87	126+34	LT	390	490	0.5	24	-	-		W5-52R	122+63	RT	3.0	1	-	-
	123+87	126+34	RT	440	570	0.5	24	-	-		W5-52L	122+63	LT	3.0	1	-	-
	UNDIST	TRIBUTED		0	0	0.0	0	25	50		W5-52L	123+87	RT	3.0	1	-	-
	F	PROJECT TOTAL	_S	2,050	1,870	2.0	100	25	50		W5-52R	123+87	LT	3.0	1	-	-
				-	-							PROJECT TOTAL	-S	27.0	4	1	1

		REMOVIN	G SIGNS TYPE II 8	& REMOVING SM	MALL SIGN SUPPORTS
			(638.2602) REMOVING SIGNS TYPE II	(638.3000) REMOVING SMALL SIGN SUPPORTS	
CATEGORY	STATION	LOCATION	EACH	EACH	REMARKS
0010	122+65	LT	1	2	REMOVE ALBANY - MONTICELLO SIGN & SUPPORTS
•	PROJEC	CT TOTALS	1	2	

			C	ONSTRUCTION ST	TAKING			
				(650.4500) SUBGRADE	(650.5000) BASE	(650.6500) STRUCTURE LAYOUT	(650.9910) SUPPLEMENTAL CONTROL	(650.9920) SLOPE STAKES
CATEGORY	STATION	TO STATION	LOCATION	LF	LF	LS	LS	LF
0010	120+16	122+63	LT & RT	247	247	-	-	247
	123+87	126+34	LT & RT	247	247	-	-	247
		PROJECT 5605-0	0-72	-	-	-	1	-
	CAT	EGORY 0010 SUE	BTOTALS	494	494	0	1	494
0020		STRUCTURE B-23	3-170	-	-	1	-	-
	CAT	EGORY 0020 SUE	STOTALS	0	0	1	0	0
PROJECT TOTALS				494	494	1	1	494

			PAVEMENT MAI	RKING PAINT	4-INCH	
			_	YELLOW	WHITE	_
CATEGORY	STATION	STATION	LOCATION	LF	:	NOTES
0010	120+16	126+34	LT	-	618	SOLID WHITE EDGE LINE
	121+56.5	125+79	CENTERLINE	845	-	SOLID DOUBLE YELLOW CENTERLINE
	120+16	126+34	RT	-	618	SOILD WHITE EDGE LINE
	PRO	JECT SUBTO	ΓALS	845	1,236	
	PROJECT TOTAL				31	

PROJECT NO:5605-00-72 HWY:CTH E COUNTY:GREEN MISCELLANEOUS QUANTITIES SHEET **E**



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
08E14-01	TRACKING PAD
12A03-10	NAME PLATE (STRUCTURES)
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-05	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-15A	PAVEMENT MARKING (MAINLINE)

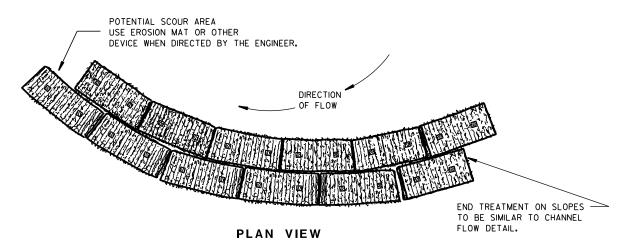
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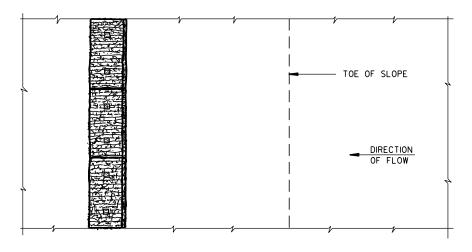
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

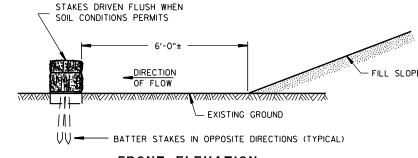
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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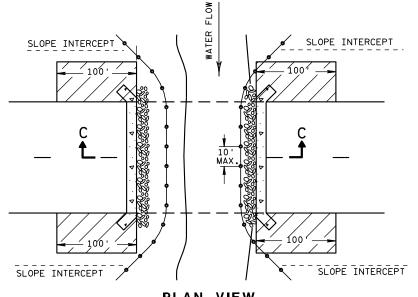
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GENERAL NOTES

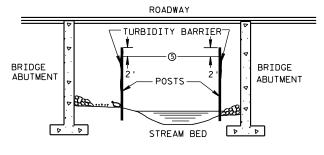
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- 4 IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

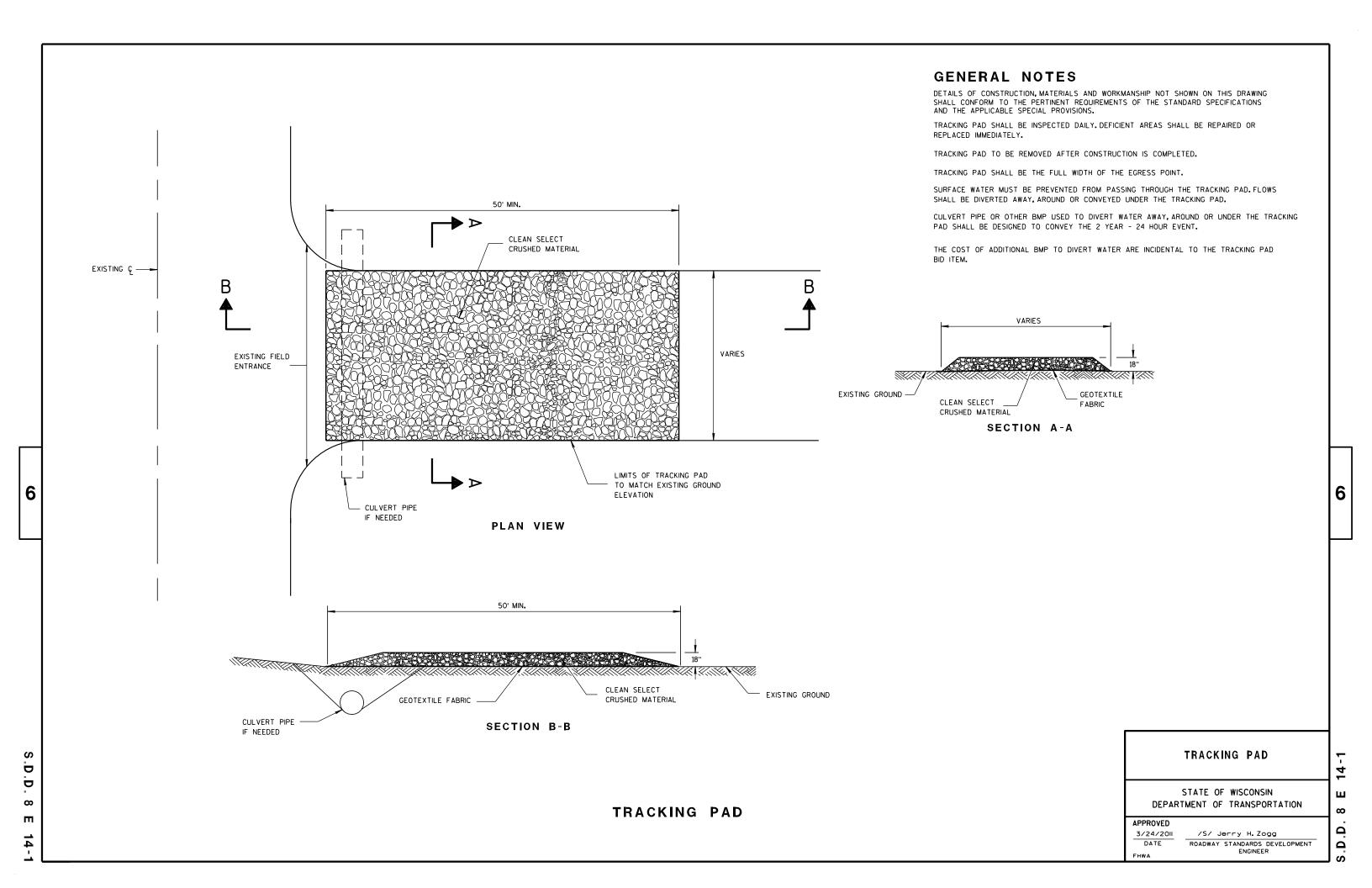
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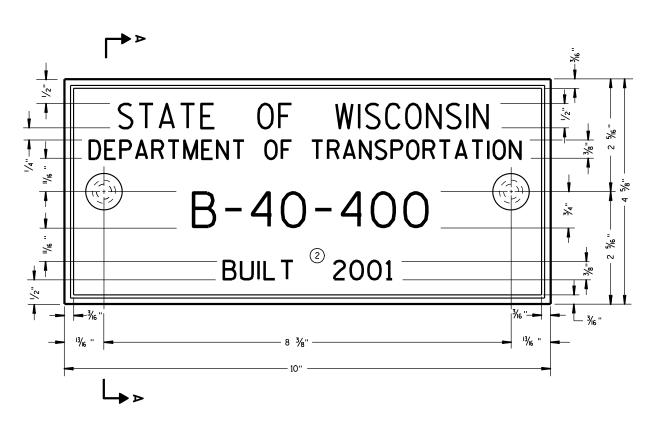
6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

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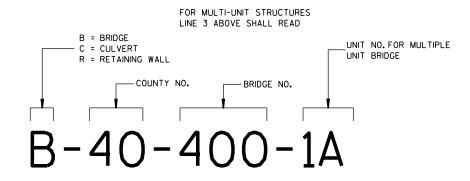






TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



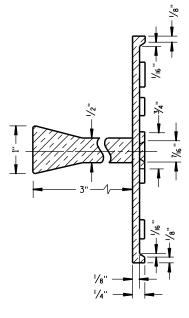
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

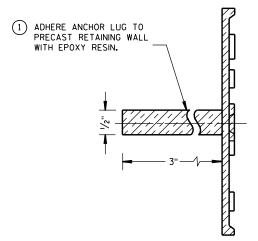
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

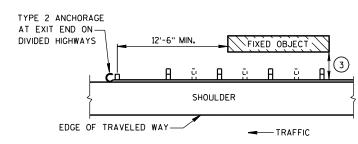
NAME PLATE (STRUCTURES)

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DEPARTMENT OF TRANSPORTATION

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BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES **EXIT END - ONE WAY TRAFFIC**

GENERAL NOTES

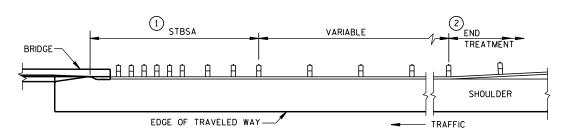
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

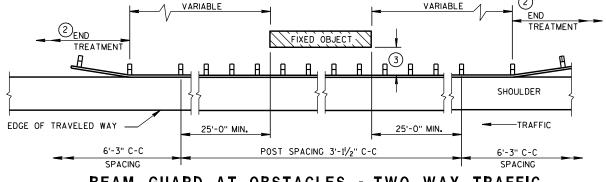
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")

END TP 1 STBSA VARIABLE TREATMENT BEGIN FLARE END FLARE → EDGE OF FINISHED SHOULDER BRIDGE->SHOULDER **─** TRAFFIC EDGE OF TRAVELED WAY -FLARE RATE PER TABLE 1 AT RIGHT (FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES)

BEAM GUARD AT NARROW BRIDGES (FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1 FLARE RATES FOR BEAM **GUARD AT NARROW BRIDGES**

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A' AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

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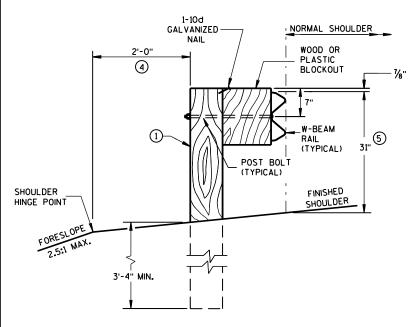
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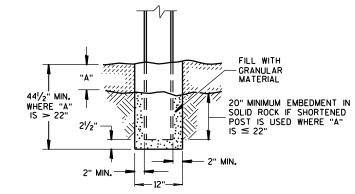
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

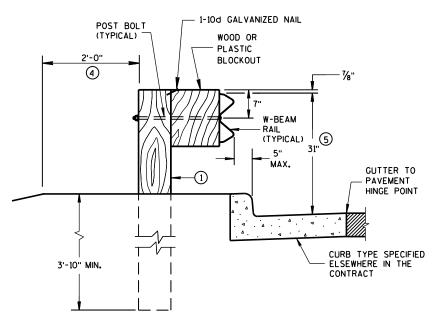


END VIEW

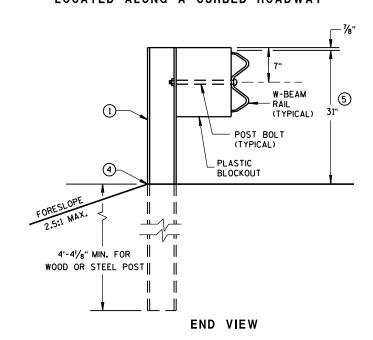
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



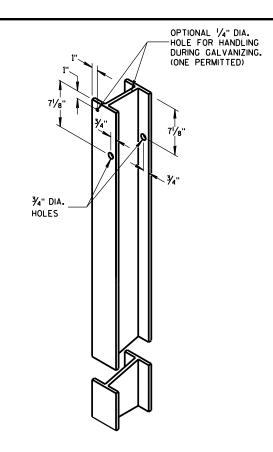
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



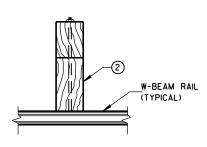
END VIEW
LOCATED ALONG A CURBED ROADWAY



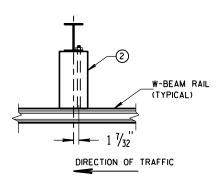
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



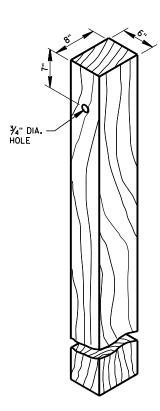
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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DEPARTMENT OF TRANSPORTATION

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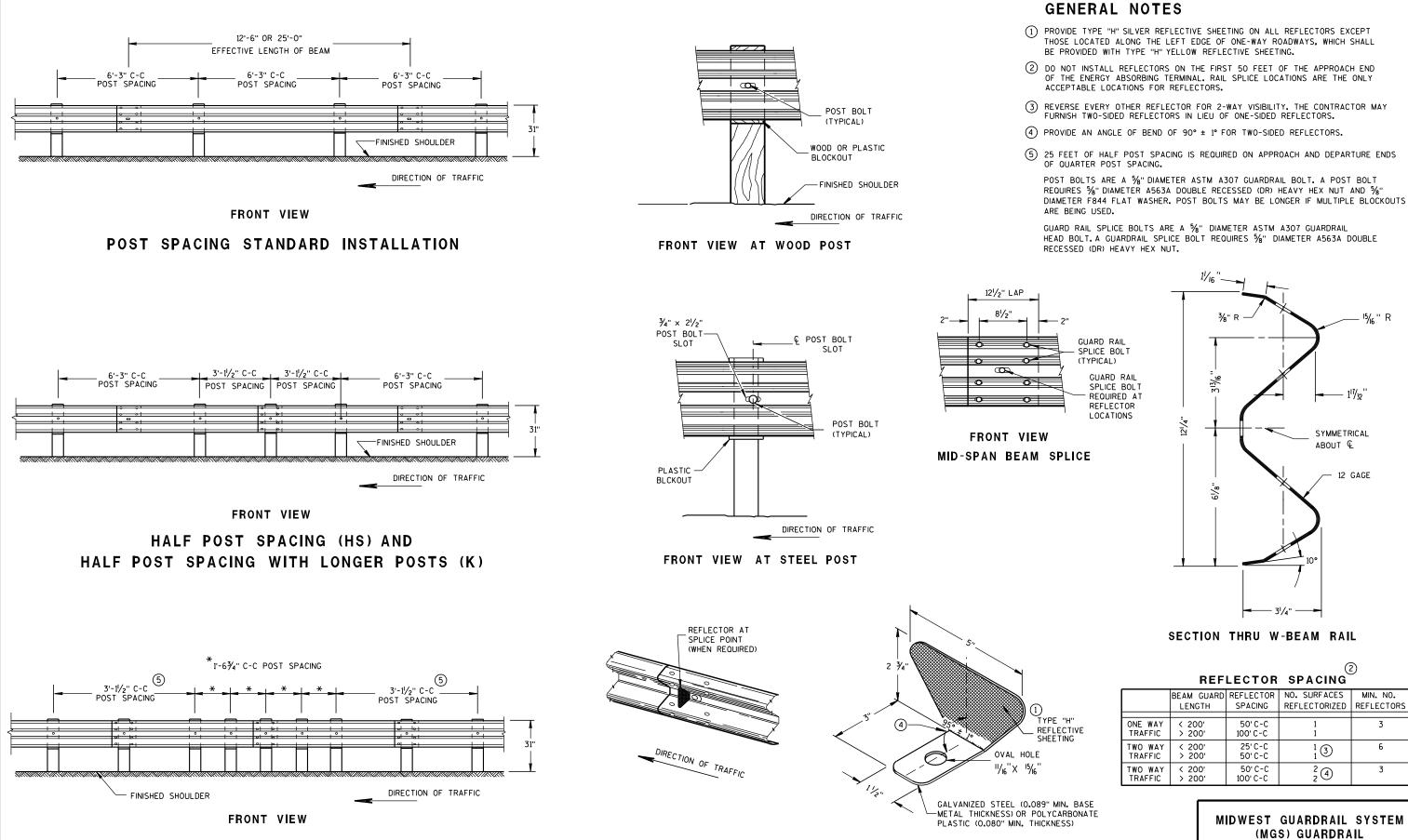
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

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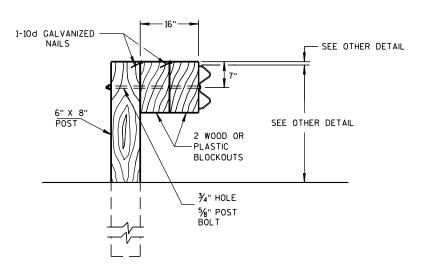
BEAM GUARD REFLECTOR NO. SURFACES MIN. NO.

SPACING | REFLECTORIZED | REFLECTORS 3 6 1 3 2 4 3

> MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

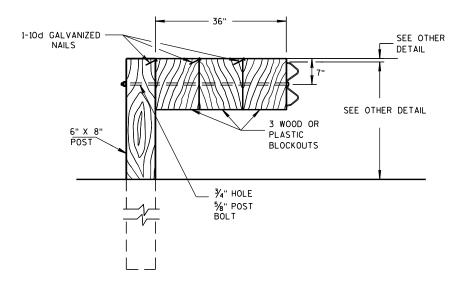
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



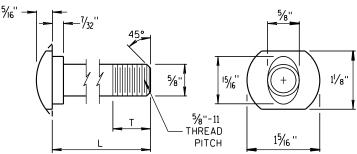
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

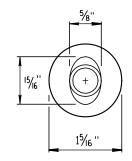
NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".

2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

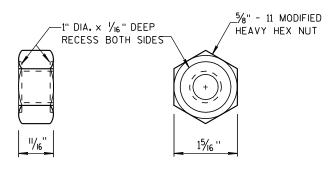


POST BOLT TABLE

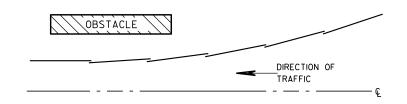
L	T (MIN.)
11/4"	1 1/8"
2"	13/4"
10"	4"
14"	4½ ₆ "
18"	4"
21"	4½ "
25"	4"



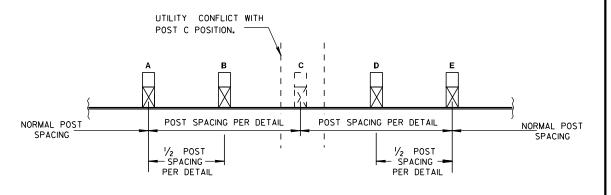
ALTERNATE BOLT HEAD



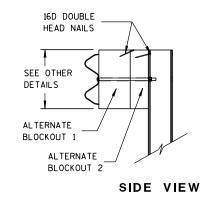
POST BOLT AND RECESS NUT

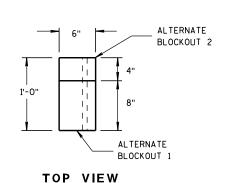


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

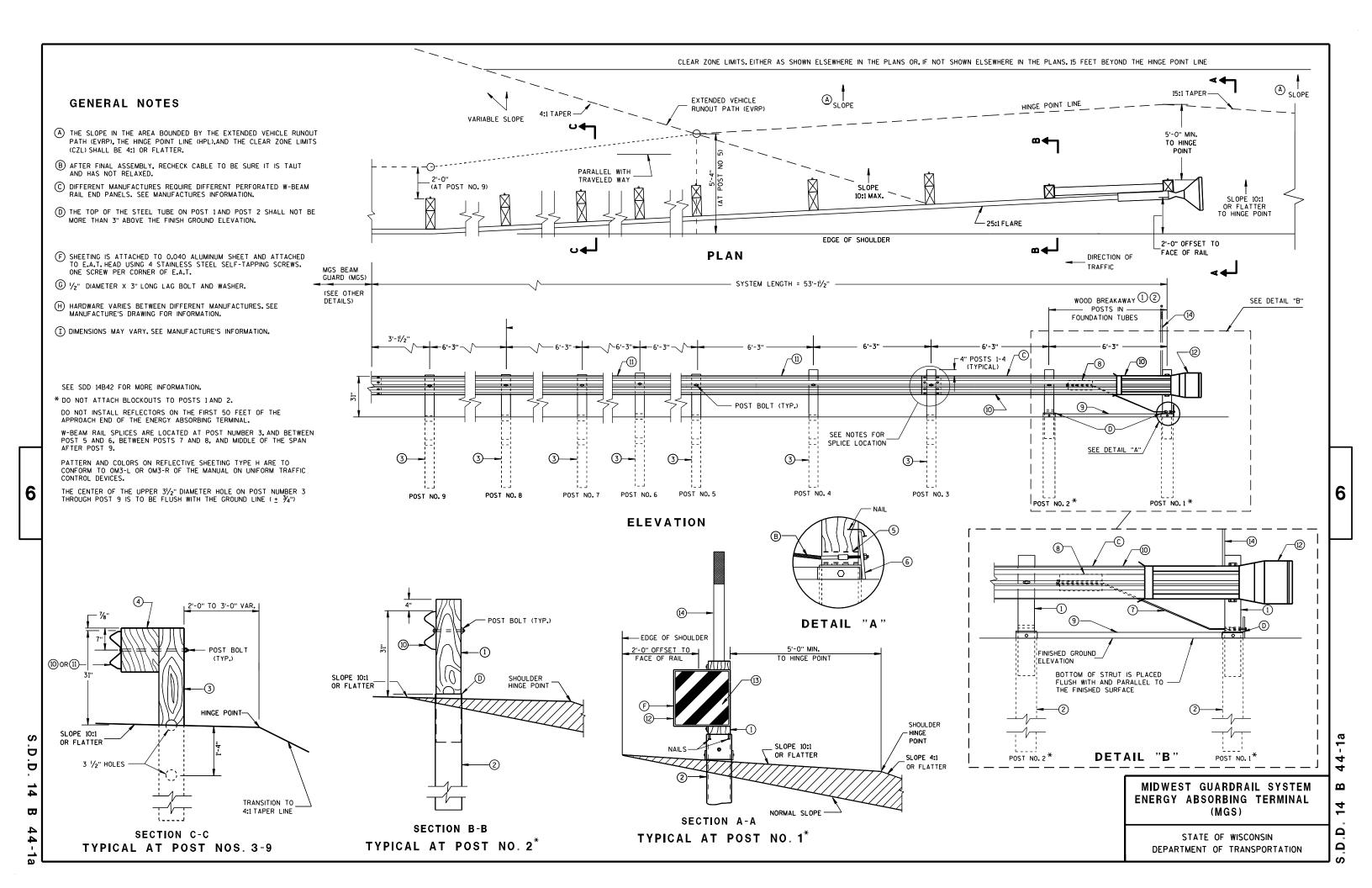
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

II/15/20II /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

.D.D. 14 B 42-2c



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GENERIC ANCHOR CABLE BOX

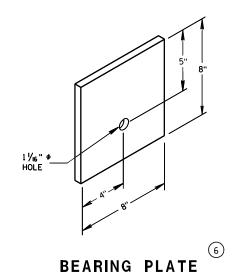
GENERIC GROUND STRUT

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PLAN VIEW

BILL OF MATERIALS

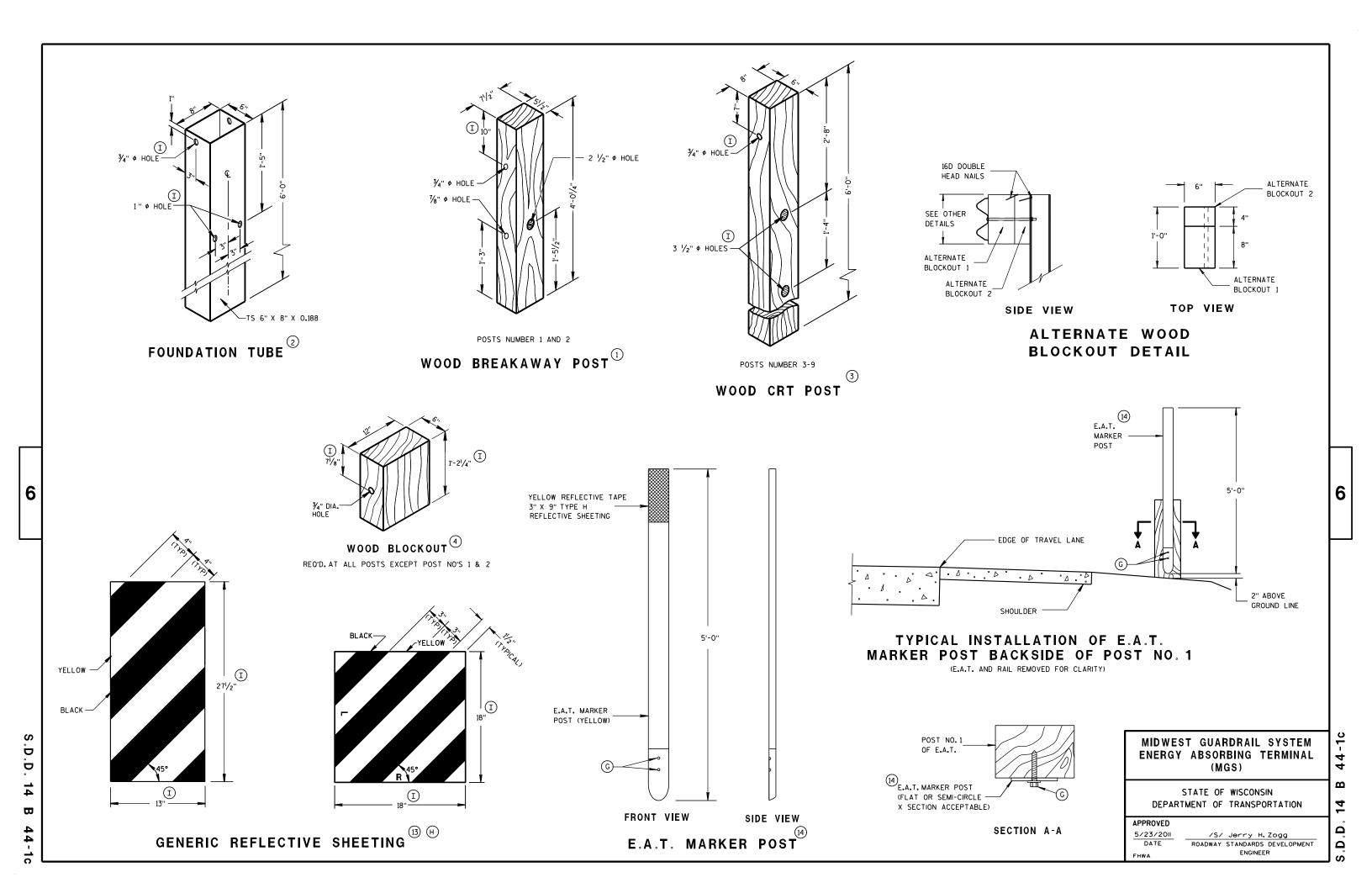
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
@	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(1)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(2)	END SECTION EAT
13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

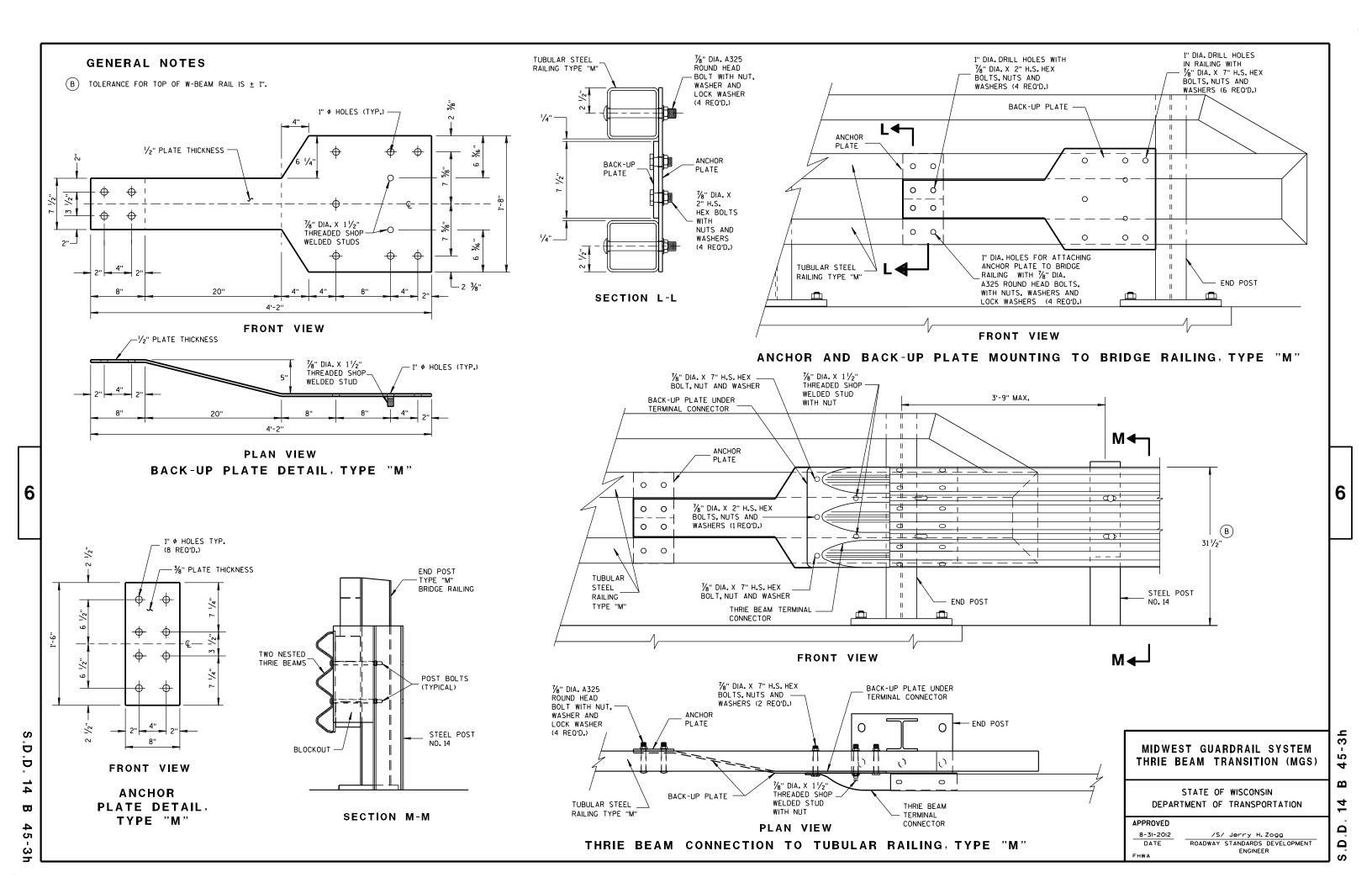


MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D.





	CONNE		R ASSEMBLY)	ION
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3/6 "
P2	1	B∱c	20" × 20" × 28%6"	¾6 "
Р3	1	B C D	39" × 35/8" × 20" × 191/6"	3∕16 ''
S1	4	B	18 1/6 " × 3 1/8" × 18 3/4"	1/4"
S2	1	B C D	10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"
S3	1	B C D	$3" \times 1^{1}/_{16}" \times 3^{1}/_{8}" \times 1^{1}/_{2}"$	1/4"
S4	1	вД	6½" × 2½6"	1/4"
S5	1	В	6½" × ½"	1/4"
S6	1	В	7¾" × 1¾"	1/4"
S7	1	ABC	2%6" × 6" × 3%" × 5%"	1/4"
S8	1	A∯C	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C 	$6\frac{1}{16}$ " × $6\frac{3}{16}$ " × $1\frac{3}{32}$ "	1/4"
S10	1	A D C	1%" × 9%" × 3%" × 911/16"	1/4"
S11	1	C A	8½" × 8¾" × 1⅓6 "	1/4"

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

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DEPARTMENT OF TRANSPORTATION

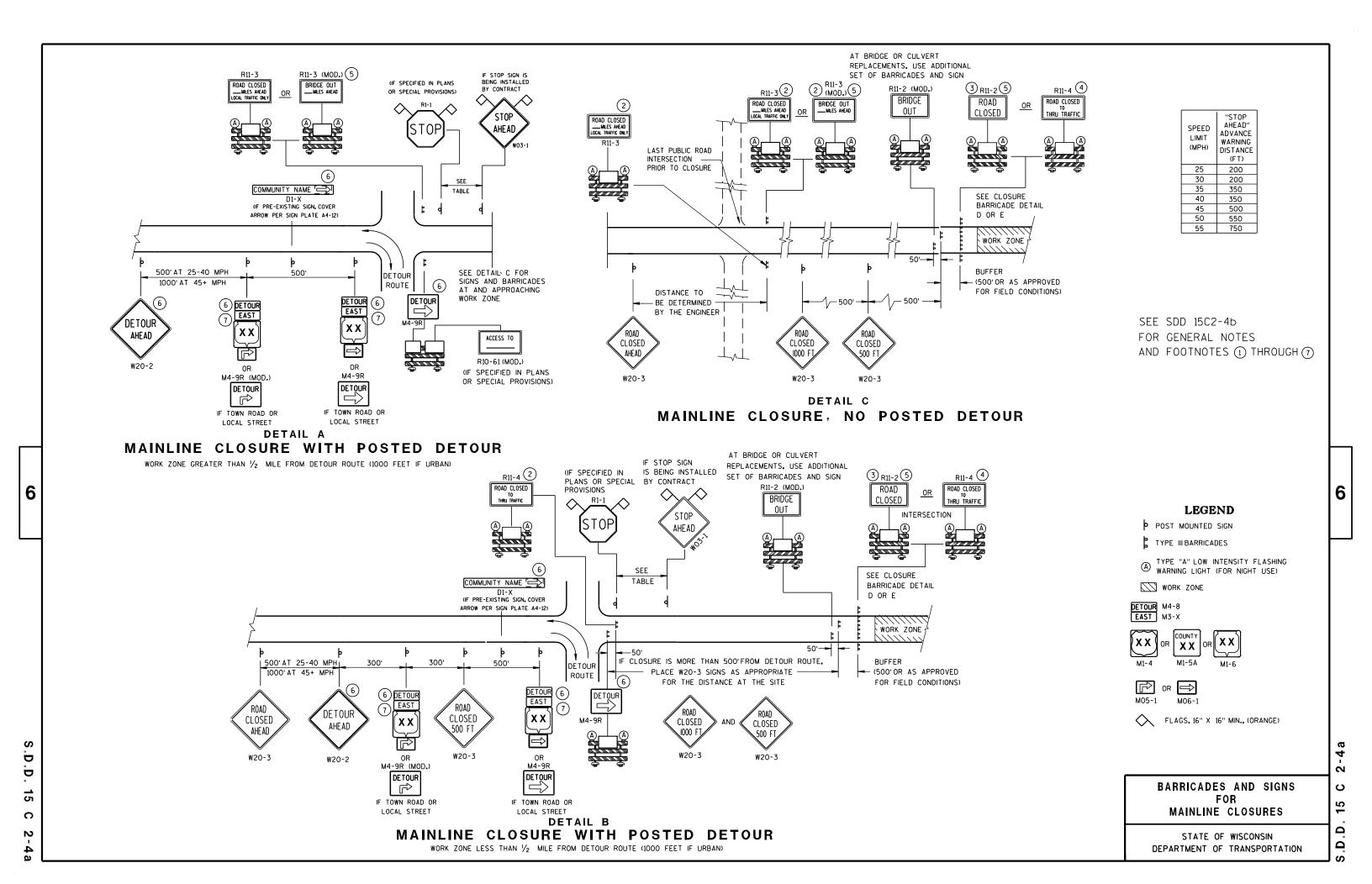
APPROVED

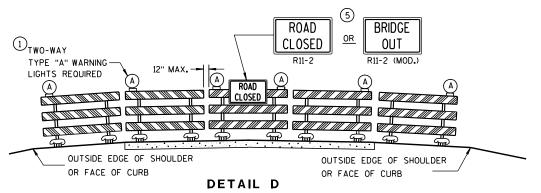
8/31/2012 /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D.D. 1

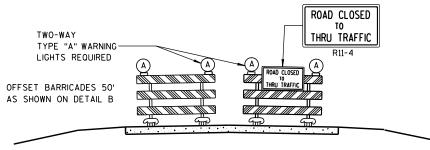
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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".

M4-9 SHALL BE 30" X 24".

M3-X AND M4-8 SHALL BE 24" X 12" (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX.8-FOOT LIGHT SPACING).
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN, USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

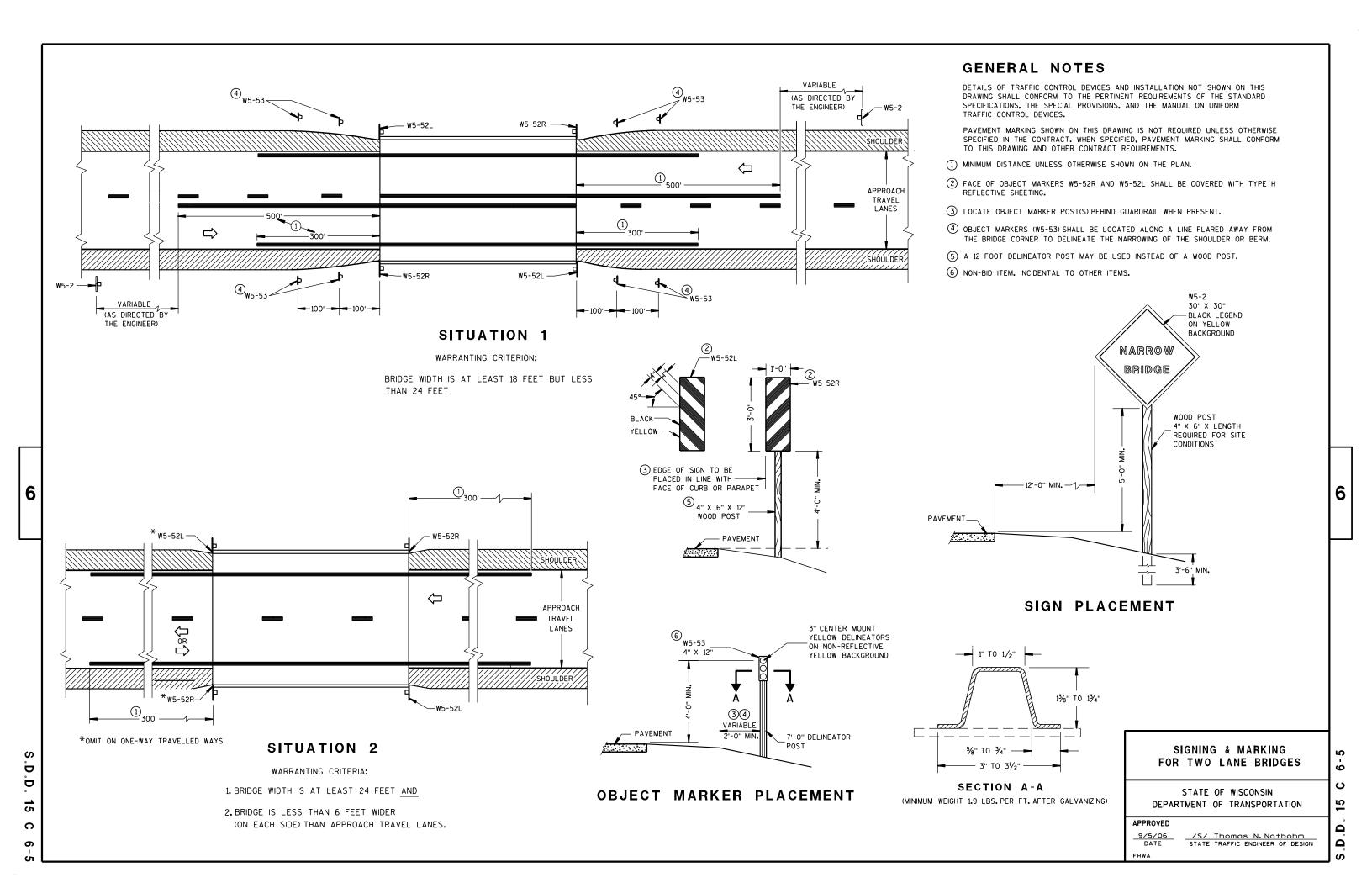
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

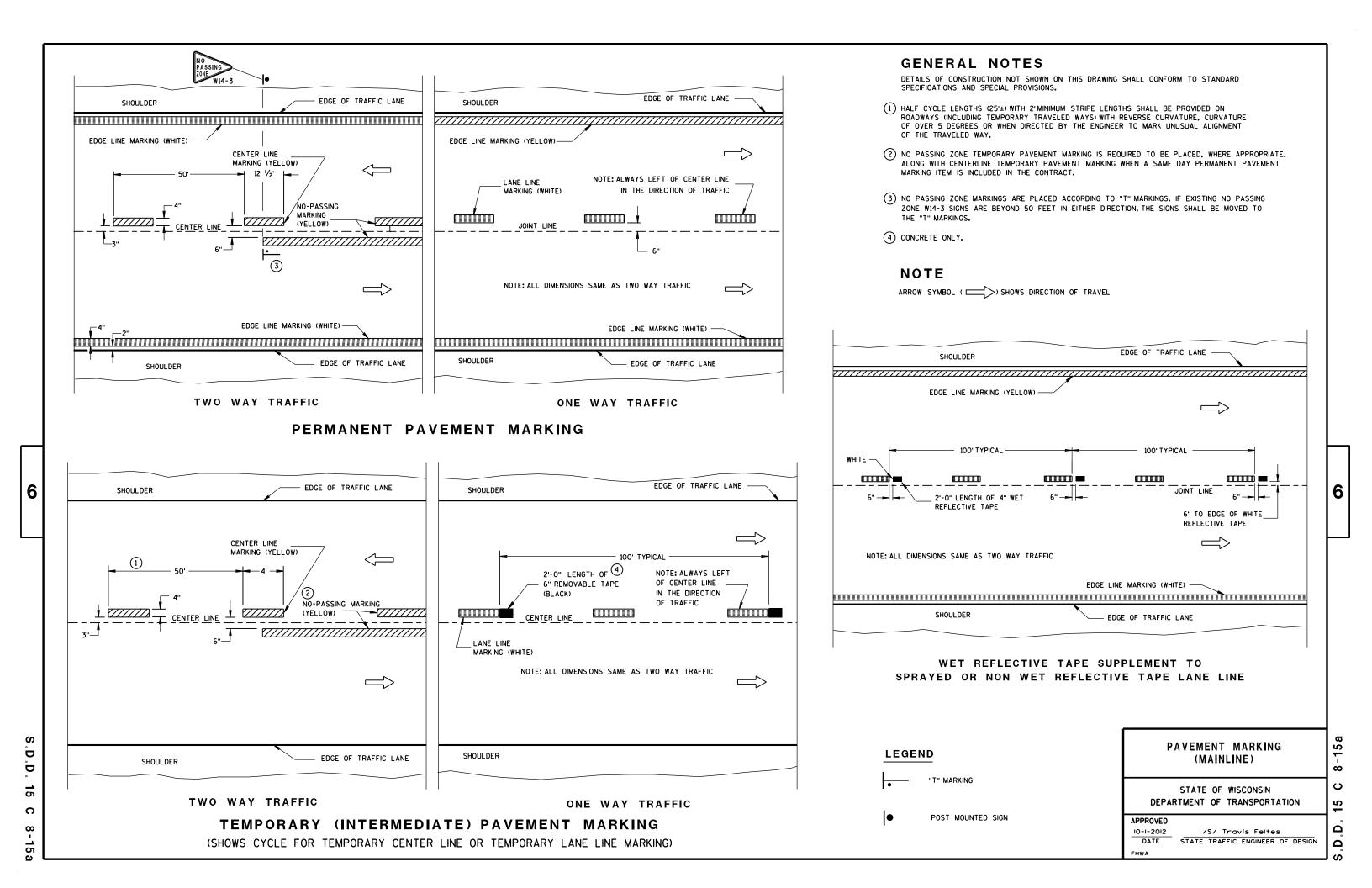
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Thomas N. Notbohm
CHIEF SIGNS AND MARKING ENGINEER

2 Ω





HWY:CTH E

NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E

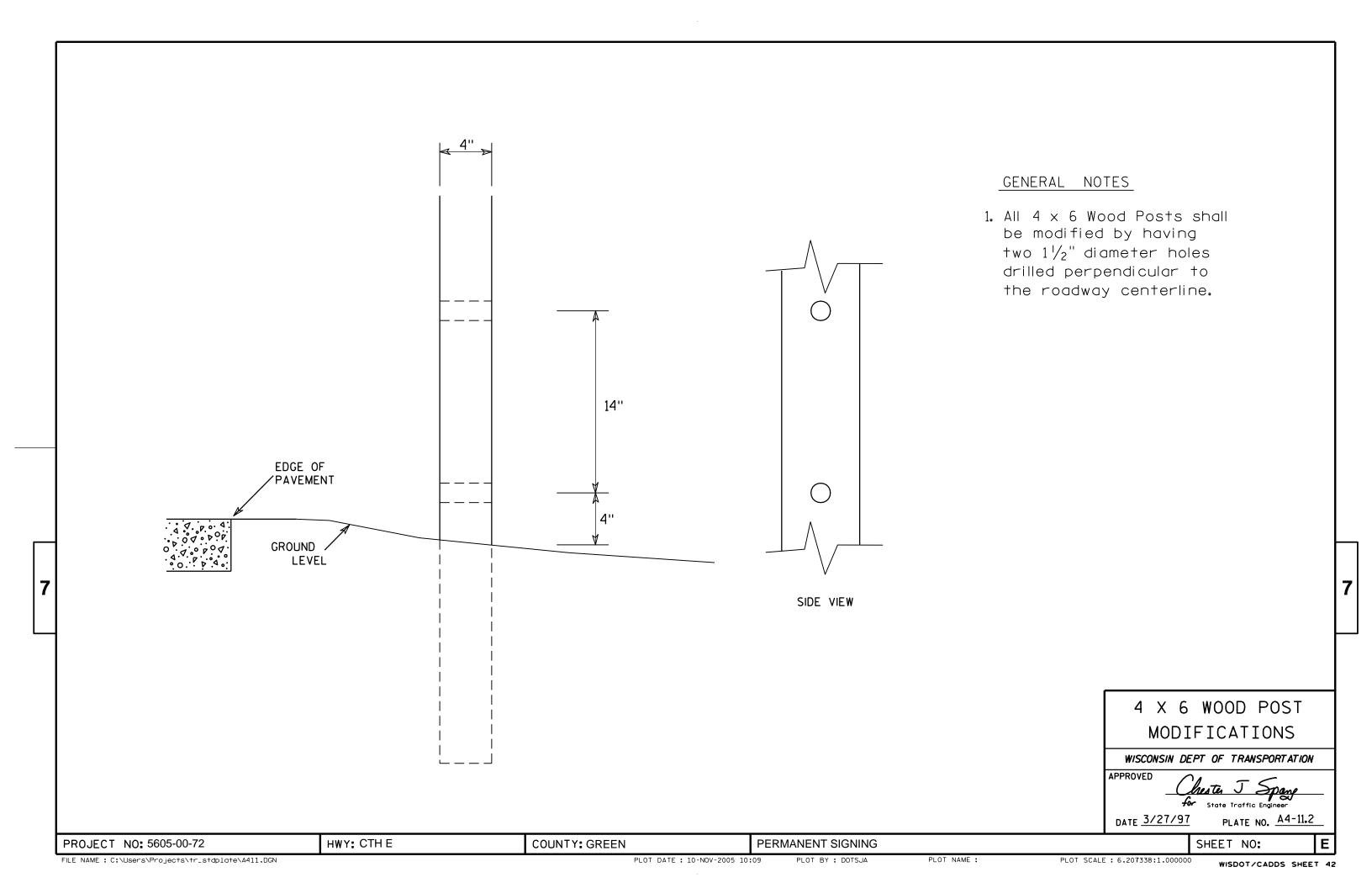
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COUNTY: GREEN

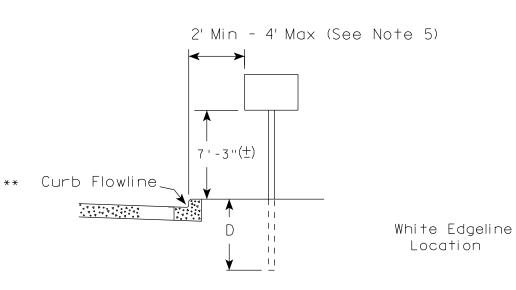
PERMANENT SIGNING

SHEET NO:

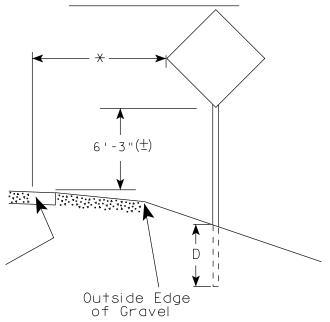
PLOT SCALE: \$\$.....plotscale.....\$\$wiSDOT/CADDS SHEET 42



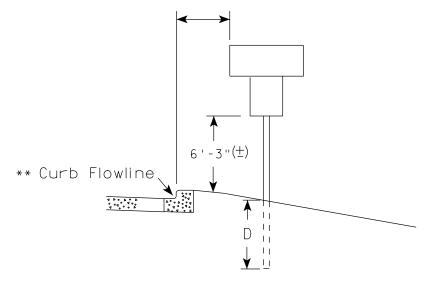
urban area



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

- 1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3'' (\pm) or 6'-3'' (\pm) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' 3" (\pm) .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (±) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (\pm) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawl For State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16

PROJECT NO: 5605-00-72

HWY: CTHE

COUNTY: GREEN

PERMANENT SIGNING

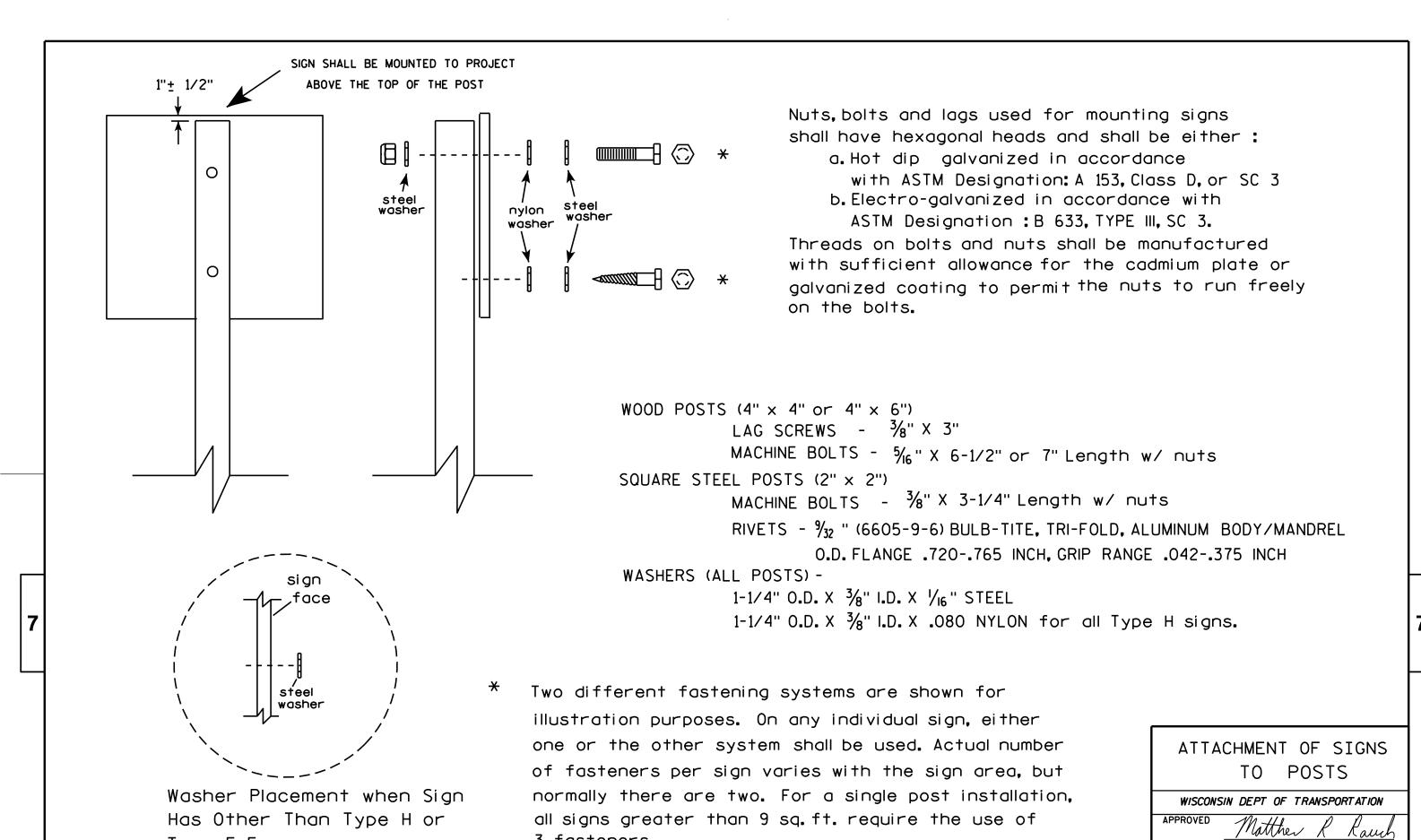
PLOT NAME :

PLOT SCALE : 101.303739:1.000000 WISDOT (CA

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A43.DGN

PLOT DATE: 21-SEP-2011 13:33 PLOT BY: mscsja



HWY: CTH E COUNTY: GREEN PERMANENT SIGNING PROJECT NO: 5605-00-72 SHEET NO: FILE NAME : C:\Users\PROJECTS\tr_stdplate\A48.DGN PLOT DATE: 23-MAR-2010 10:15 PLOT BY : dit jph

For State Traffic Engineer

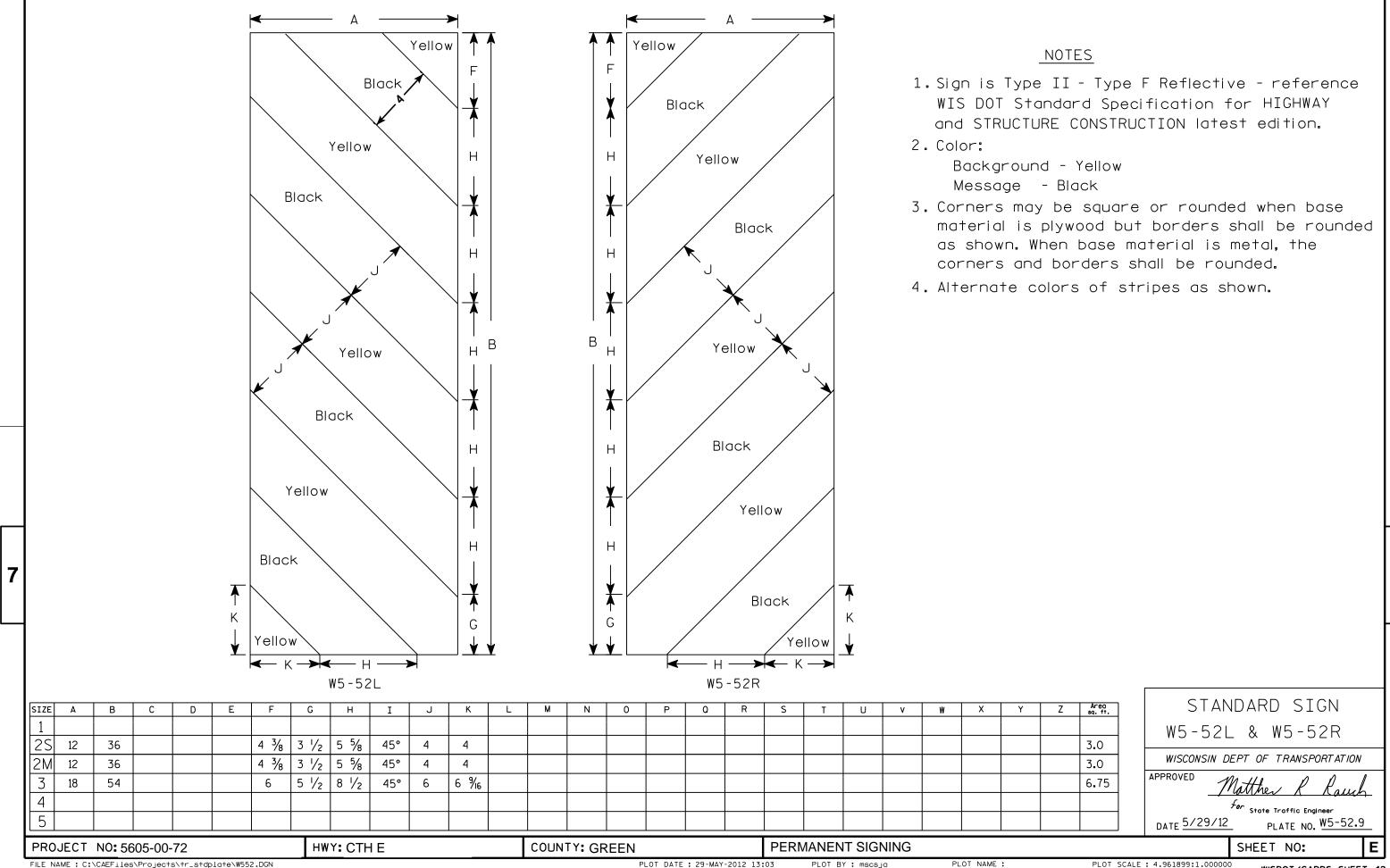
PLATE NO. 44-8.7

WISDOT/CADDS SHEET 42

DATE 3/23/10

3 fasteners.

Type F Face



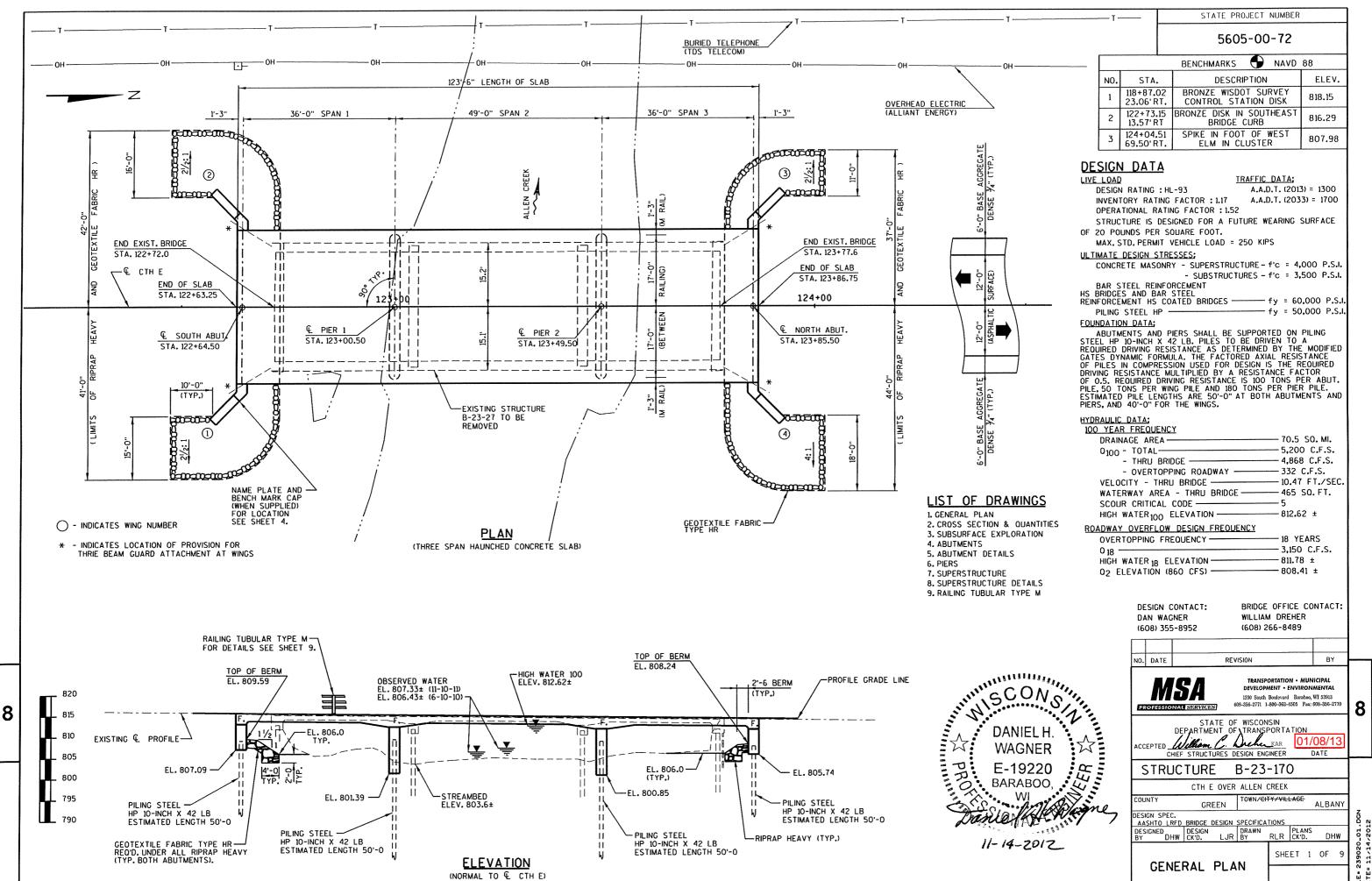
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PLOT NAME :

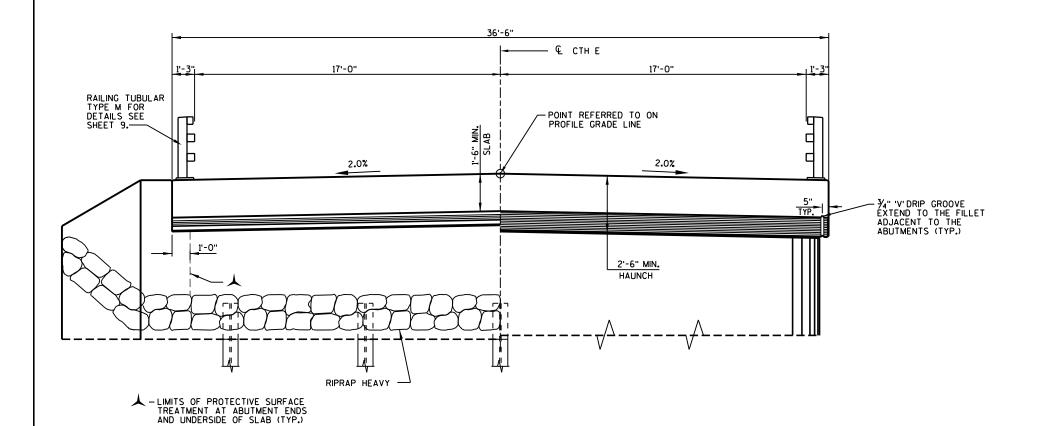
PLOT SCALE: 4.961899:1.000000

WISDOT/CADDS SHEET 42



STATE PROJECT NUMBER

5605-00-72



© SOUTH ABUT. STA. 122+64.50

© PIER 1 STA. 123+00.50

EL. 815.30

© PIER 2 STA. 123+49.50

© PIER 2 STA. 123+49.50

© NORTH ABUT. STA. 123+85.50

PROFILE GRADE LINE - CTH E

AT ABUTMENTS

AT PIERS

CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	PIER 1	PIER 2	NORTH ABUT.	SUPER	TOTAL
203.0700.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH DEBRIS CAPTURE SYSTEM STATION 123+25	LS	-	-	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURE BRIDGES B-23-170	LS	-	-	-	-	-	1
210.0100	BACKFILL STRUCTURE	CY	130	-	-	130	-	260
502.0100	CONCRETE MASONRY BRIDGES	CY	35	35	35	35	282	422
502.3200	PROTECTIVE SURFACE TREATMENT	SY	20	-	-	20	570	610
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2660	1700	1700	2660	-	8720
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1465	70	70	1465	54590	57660
513.4060.01	RAILING TUBULAR TYPE M B-23-170	LS	-	-	-	-	-	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	-	-	7	-	14
550.1100	PILING STEEL HP (10-INCH X 42 LB)	LF	330	350	350	330	-	1360
606.0300	RIPRAP HEAVY	CY	110	-	-	90	-	200
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	-	-	70	-	140
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	210	-	-	180	-	390
	NON-BID ITEMS							
	PREFORMED FILLER	SIZE						1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK
SIGNIFY THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES (B-23-170)" FOR THE ABUTMENTS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

THIS STRUCTURE WILL REPLACE THE EXISTING BRIDGE, B-23-27, A THREE SPAN, 107'LONG, HAUNCHED CONCRETE SLAB SET MONOLITHIC ON CONCRETE CAPS AT THE ABUTMENTS ON CAST-IN-PLACE CONCRETE PILING WITH TIMBER BACKING. PIERS ARE SUPPORTED ON CAST-IN-PLACE CONCRETE PILING WITH CONCRETE CAPS.

AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED A $1\frac{1}{2}$:1 EXCAVATION SLOPE AT THE ABUTMENTS.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO BENCH MARK NO. 1, LOCATED APPROXIMATELY 400 FEET SOUTH OF THE BRIDGE, A BRONZE WISDOT GEODETIC SURVEY CONTROL STATION "1H27", ELEVATION 818.15 NAVD 88.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE

UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, EXPOSED FRONT FACES OF WINGS AND EXPOSED ENDS OF ABUTMENTS.

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-23-170

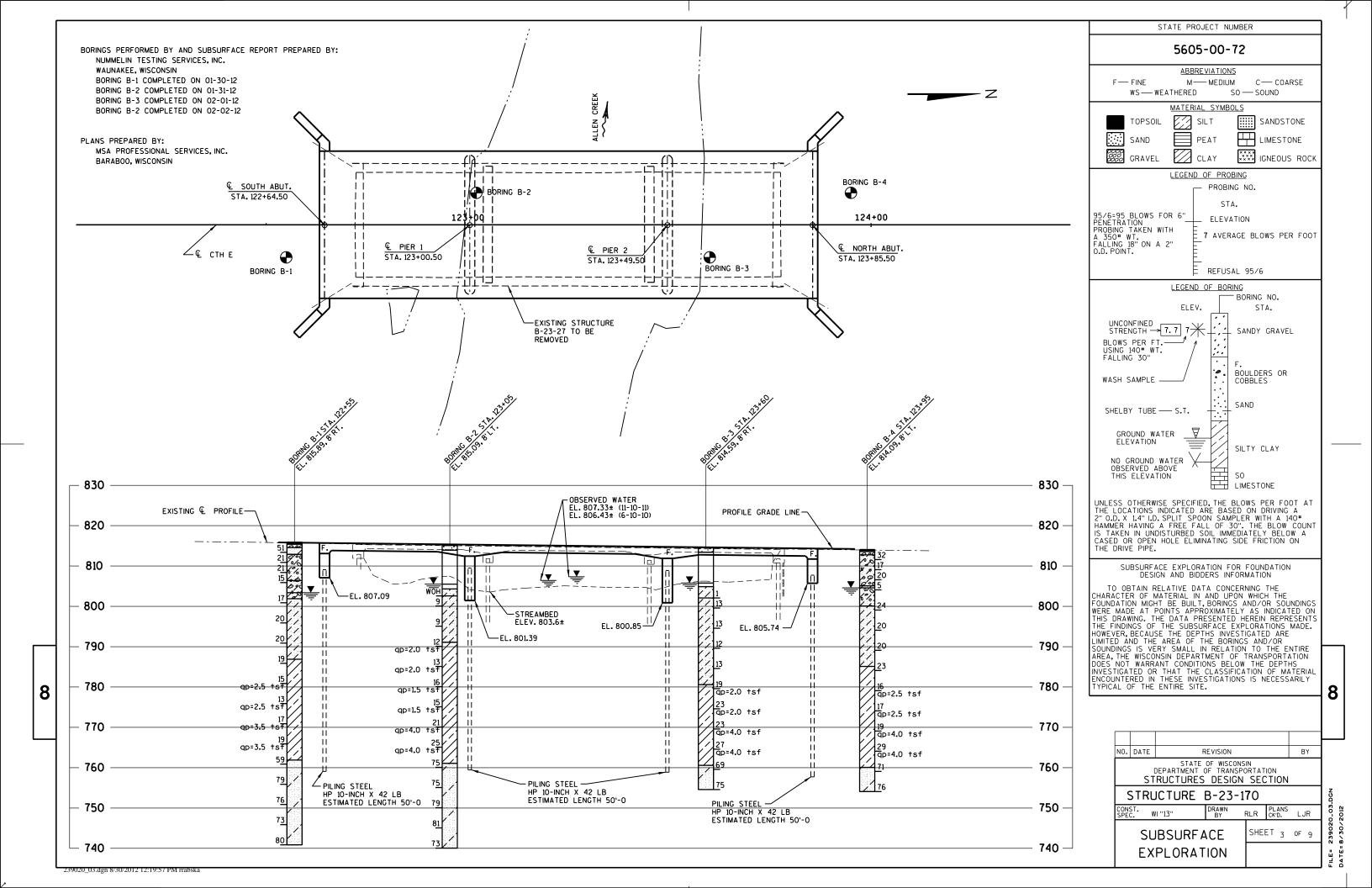
CONST. WI "13" DRAWN BY RLR PLANS CK'D. DHW

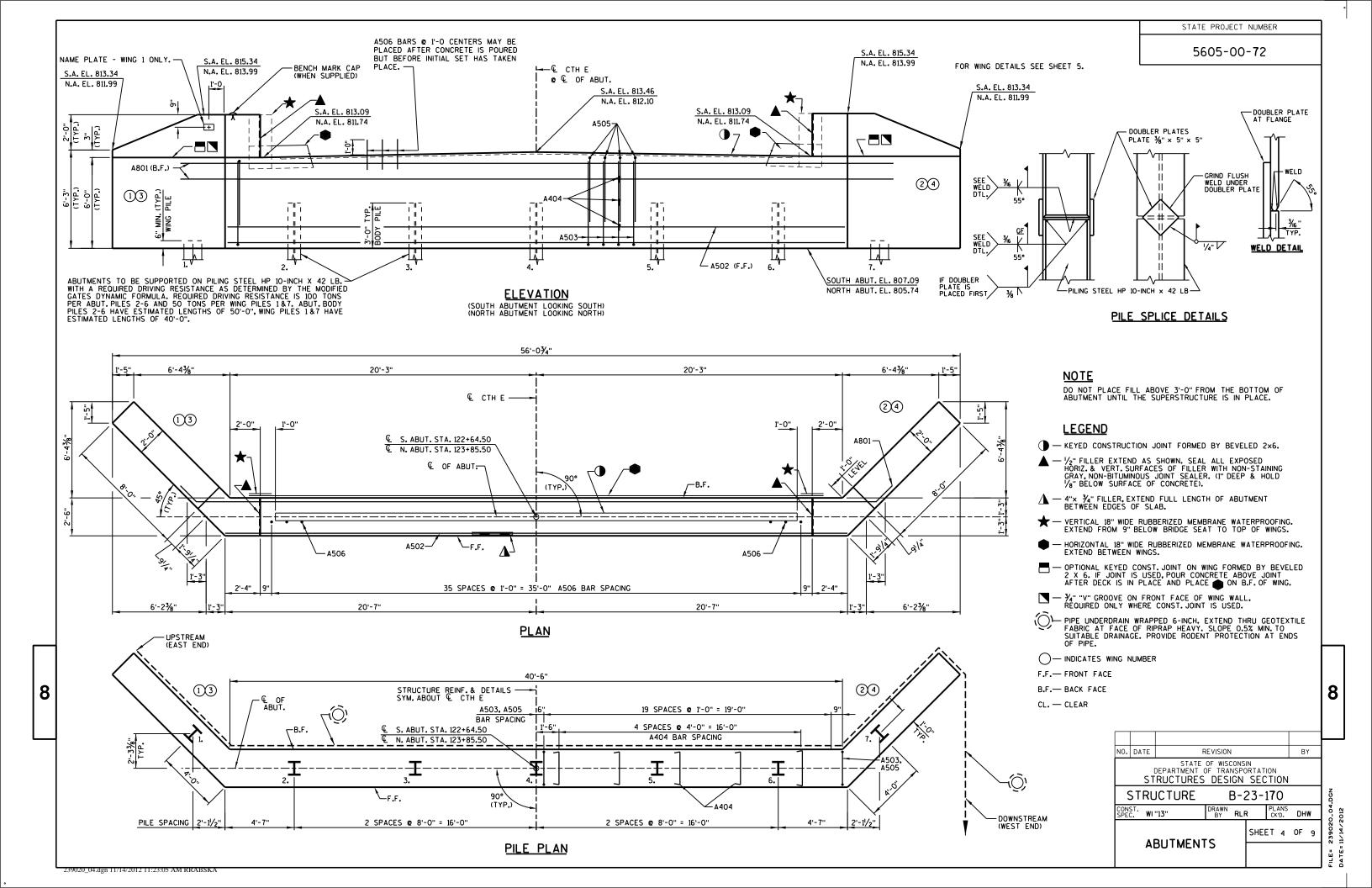
CROSS SECTION SHEET 2 OF 9

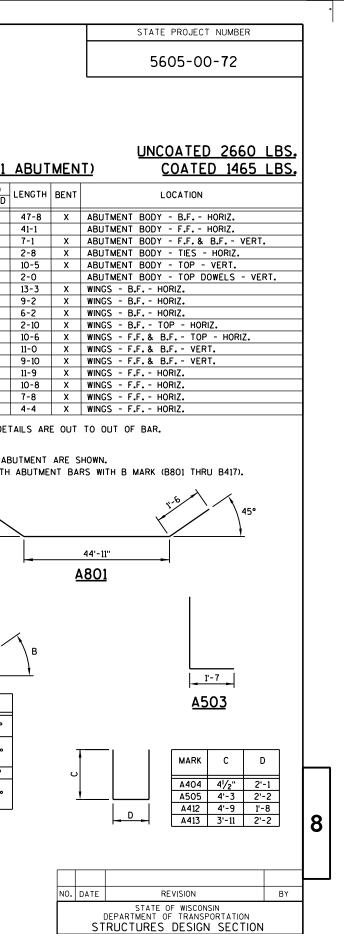
A COUNTITIES

8

FILE= 239020_02.DGN DATE=11/14/2012







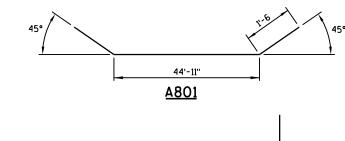
BILL OF BARS (1 ABUTMENT)

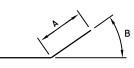
MARK		REQUIRED UNCOATED	LENGTH	BENT	LOCATION
A801	-	9	47-8	Х	ABUTMENT BODY - B.F HORIZ.
A502	-	9	41-1		ABUTMENT BODY - F.F HORIZ.
A503	-	84	7-1	Х	ABUTMENT BODY - F.F. & B.F VERT.
A404	-	30	2-8	Х	ABUTMENT BODY - TIES - HORIZ.
A505	-	42	10-5	Х	ABUTMENT BODY - TOP - VERT.
A506	36	1	2-0		ABUTMENT BODY - TOP DOWELS - VERT.
A807	18	-	13-3	X	WINGS - B.F HORIZ.
A408	2	-	9-2	X	WINGS - B.F HORIZ.
A409	2	-	6-2	×	WINGS - B.F HORIZ.
A410	2	-	2-10	X	WINGS - B.F TOP - HORIZ.
A411	4	-	10-6	×	WINGS - F.F. & B.F TOP - HORIZ.
A412	56	-	11-0	×	WINGS - F.F. & B.F VERT.
A413	6	-	9-10	×	WINGS - F.F. & B.F VERT.
A514	18	-	11-9	Х	WINGS - F.F HORIZ.
A415	2	-	10-8	Х	WINGS - F.F HORIZ.
A416	2	-	7-8	Х	WINGS - F.F HORIZ.
A417	2	-	4-4	X	WINGS - F.F HORIZ.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

BAR MARKS FOR SOUTH ABUTMENT ARE SHOWN.

LABEL AND BUNDLE NORTH ABUTMENT BARS WITH B MARK (B801 THRU B417).





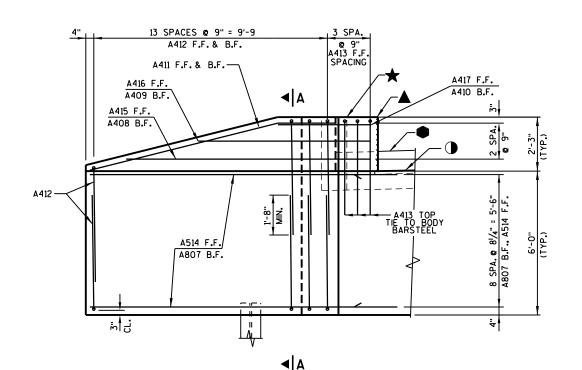
MARK	Α	В
A807 A514	1'-6	45°
A408 A409 A410	1'-10	45°
A411	2'-5	14°
A415 A416 A417	2'-0	45°

STRUCTURE B-23-170 DRAWN BY RLR

> **ABUTMENT** DETAILS

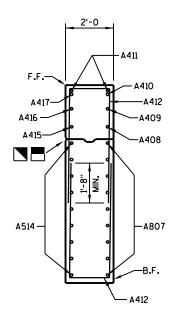
WI "13"

PLANS CK'D. DHW SHEET 5 OF 9

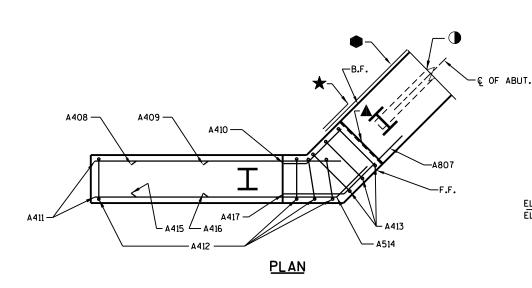


ELEVATION

(LOOKING AT F.F. OF WINGS)

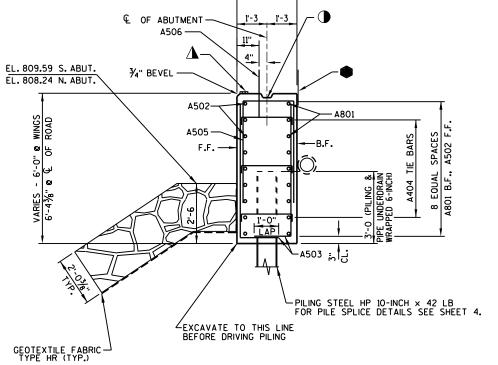


SECTION A-A THRU WING

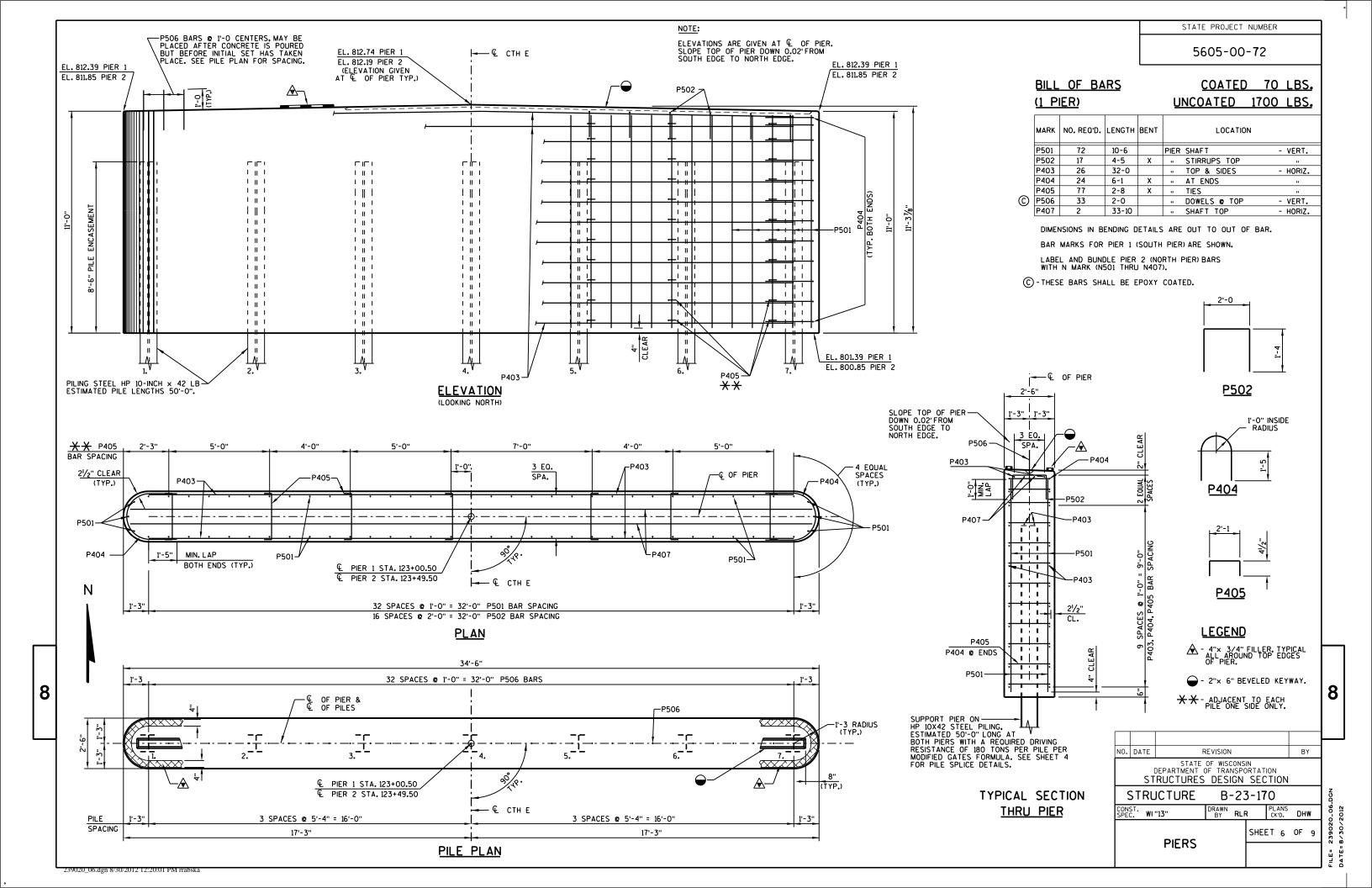


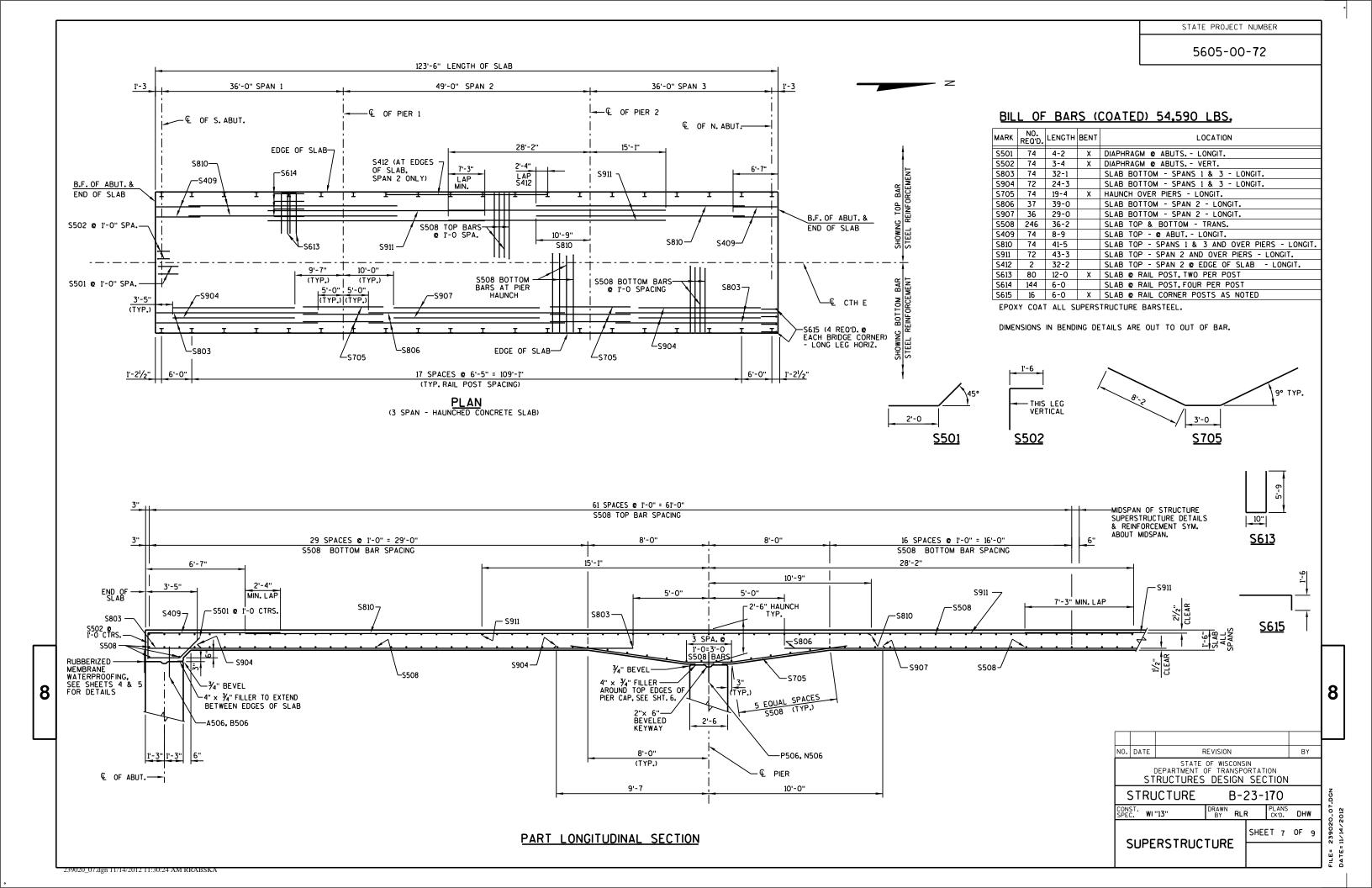


NOTE: WINGS 1 & 3 SHOWN, WINGS 2 & 4 SIMILAR.



TYPICAL SECTION THRU ABUTMENT

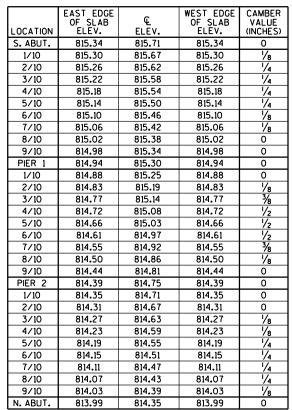


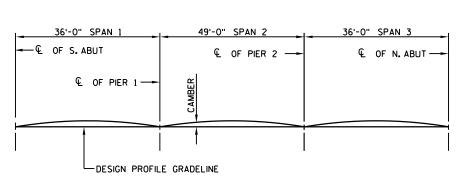




5605-00-72

TOP OF SLAB ELEVATIONS AND CAMBER VALUES





CAMBER DIAGRAM

GENERAL NOTES

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM.
ANY TOLERANCES NECESSARY TO CORRECT
CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-O CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-O CENTERS.

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION APPROXIMATES 1/3 OF CAMBER VALUES SHOWN.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS, THE PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGES OF SLAB AND CROWN OR \P .

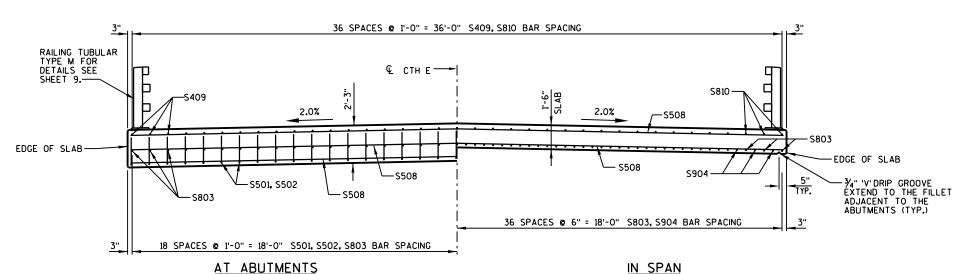
					Τ		
	BY			REVISION	F	DATE	NO.
			ORTAT		STATE DEPARTMENT (RUCTURES		
08.DGN		170	23-	B-:	JCTURE	STRL	(
.08	DHW	PLANS CK'D.	R	DRAWN BY RLI	"13"		CON: SPE
0-02062 =3	OF 9	ET 8	SHE		RSTRUC DETAILS	SUPE	5

8

36'-6" 17'-0" 17'-0" 1'-3" RAIL 35 SPACES @ 1'-0" = 35'-0" S911 BAR SPACING RAILING TUBULAR TYPE M FOR DETAILS SEE SHEET 9. € CTH E ---S508 -S412 @ EDGES OF SLAB, SPAN 2 ONLY S412 @ EDGES OF SLAB, SPAN 2 ONLY 2.0% 2.0% S806 EDGE OF SLAB S508 -¾" 'V'DRIP GROOVE EXTEND TO THE FILLET ADJACENT TO THE EDGE OF SLAB S907 5" TYP. ABUTMENTS (TYP.) 72 SPACES @ 6" = 36'-0" S806, S907 BAR SPACING

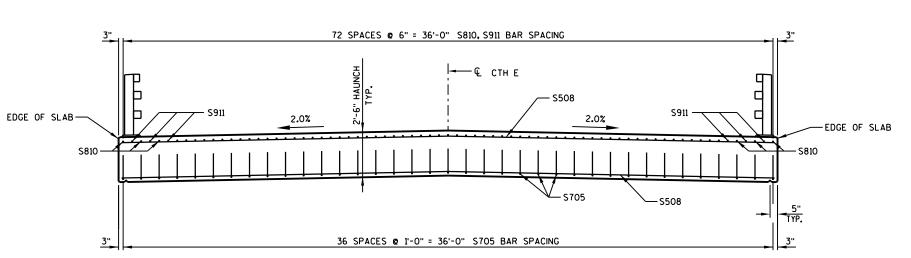
CROSS SECTION THRU BRIDGE - SPAN 2

(LOOKING NORTH)



CROSS SECTION THRU BRIDGE - SPANS 1 & 3

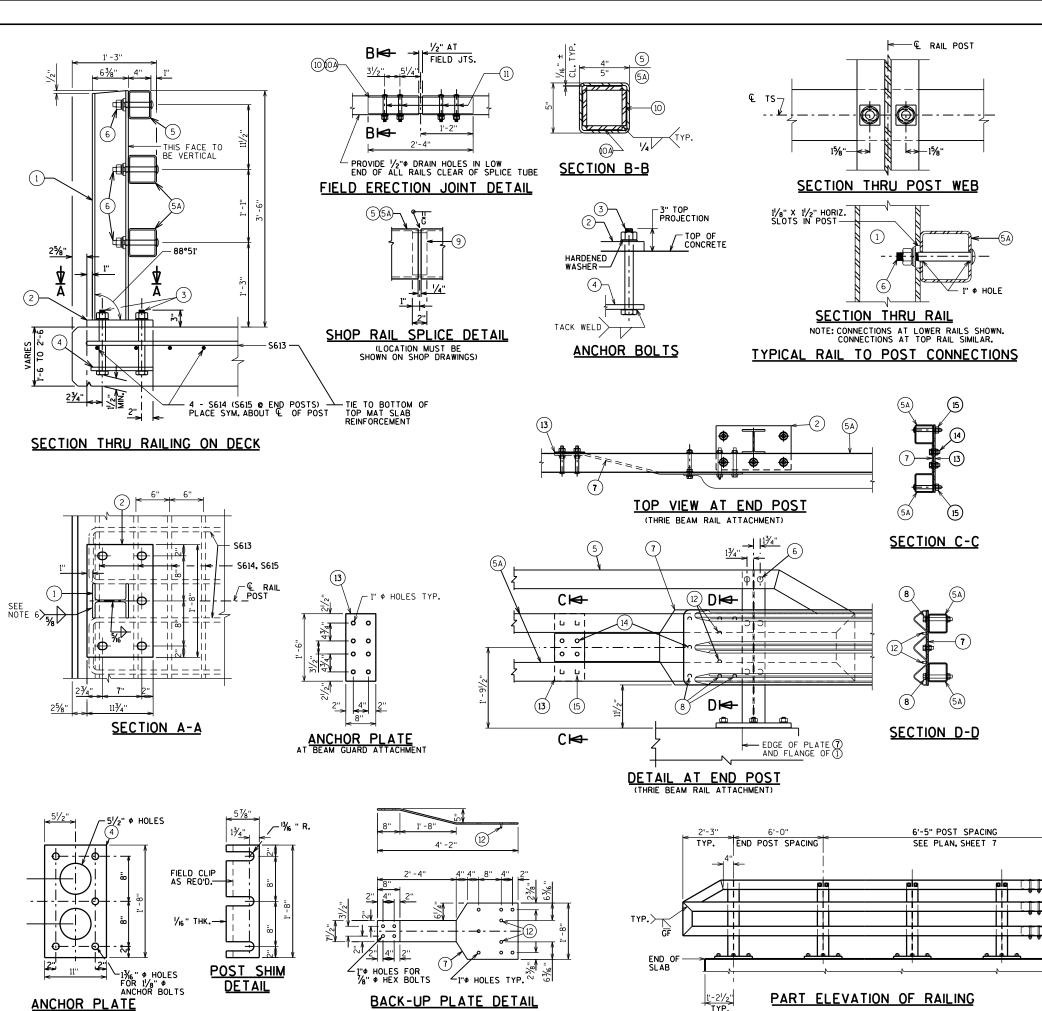
(LOOKING NORTH)



SECTION THRU BRIDGE AT PIERS

(LOOKING NORTH)

9020 08.don 11/14/2012 11:46:37 AM RRABSKA



AT BEAM GUARD ATTACHMENT

5605-00-72

STATE PROJECT NUMBER

LEGEND

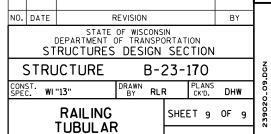
- ① W6 \times 25 WITH 11/8" \times 11/2" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO.6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- ② PLATE $1^1\!/_4$ " \times $1^1\!/_4$ " \times $1^1\!-_8$ " WITH $1^1\!/_6$ " \times $1^1\!/_6$ " SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- 3 ASTM A449 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REO'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-3" LONG.
- 4 %" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1%" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- (5A) TS 5 × 5 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 6 %" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, $\%_6$ " X $1\%_6$ " X $1\%_6$ " WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.)
- 7 1/2" THK. BACK-UP PLATE WITH 2 1/4" X 11/2" THREADED SHOP WELDED STUDS (NO. 12).
 BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY.
 PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- 8 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR % " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
- 9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- (0) %" X 2%" X 2'-4" PLATE USED IN NO. 5, %" X 3%" X 2'-4" PLATE USED IN NO. 5A.
- (1) % $^{\circ}$ A 325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE $^{1}\!\%$ " X $^{1}\!/_{4}$ " LONGIT. SLOTTED HOLES AT FIELD JOINTS IN PLATE NO. 10A.
- (2) %" DIA. X $1\frac{1}{2}$ " LONG THREADED SHOP WELDED STUDS (2 REO'D).
- $\ensuremath{\mbox{(3)}}\ensuremath{\mbox{3''}}\ensuremath{\mbox{8''}}\xspace x 8" x 1"-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REO'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A.$
- 4 %" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQUIRED).
- (5) I" ϕ Holes in Tubes no.5a for % " Dia. a325 round head bolt with nut, washer and lock washer (4 reo'd.). 4 holes in Tubes.

GENERAL NOTES

- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-23-170" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D. FOR ALIGNMENT.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION, PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. PAINTING IS NOT REQUIRED.

FIELD JOINT

11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).



TYPE M

LE= 239020_09.DGN ATE=8/30/2012

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EARTHWORK PROJECT I.D. 5605-00-72

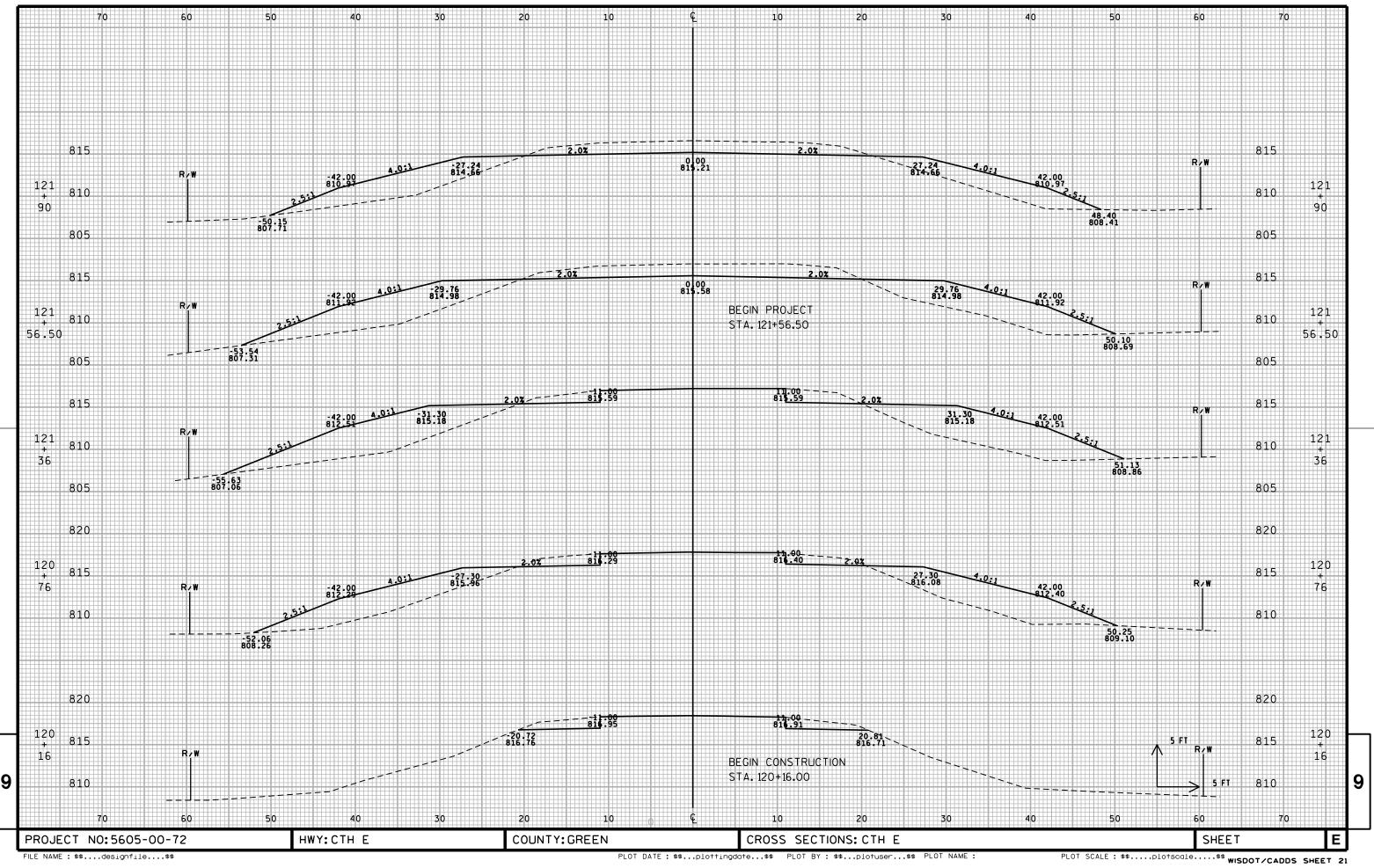
STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
			Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.25	Mass Ordinate
120+16	12016		17	0	0	0	0	0	0	0	0
120+76	12076	60	18	0	134	39	0	149	39	186	-147
121+36	12136	60	19	0	173	41	0	341	81	613	-532
121+56.5	12156.5	20.5	22	0	146	16	0	121	96	764	-668
121+56.5	12156.5	0	51	0	146	0	0	0	96	764	-668
121+90	12190	33.5	49	0	102	62	0	154	159	956	- 798
122+02	12202	12	48	0	95	22	0	44	180	1011	-831
122+27	12227	25	49	0	34	45	0	60	225	1086	-861
122+63	12263	36	49	0	34	65	0	45	290	1142	-852
B-23-170											
						290	0	914			

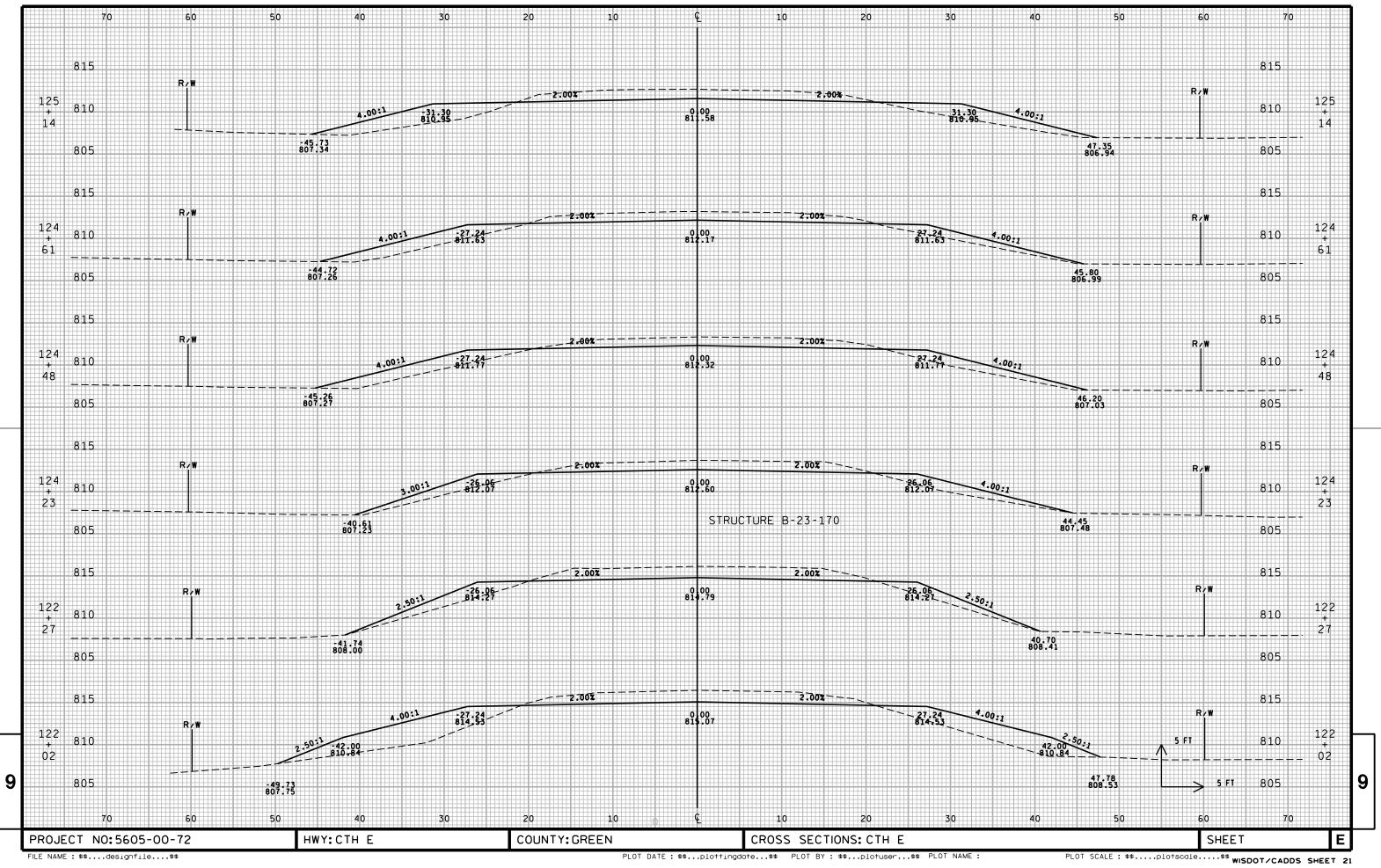
EARTHWORK PROJECT I.D. 5605-00-72

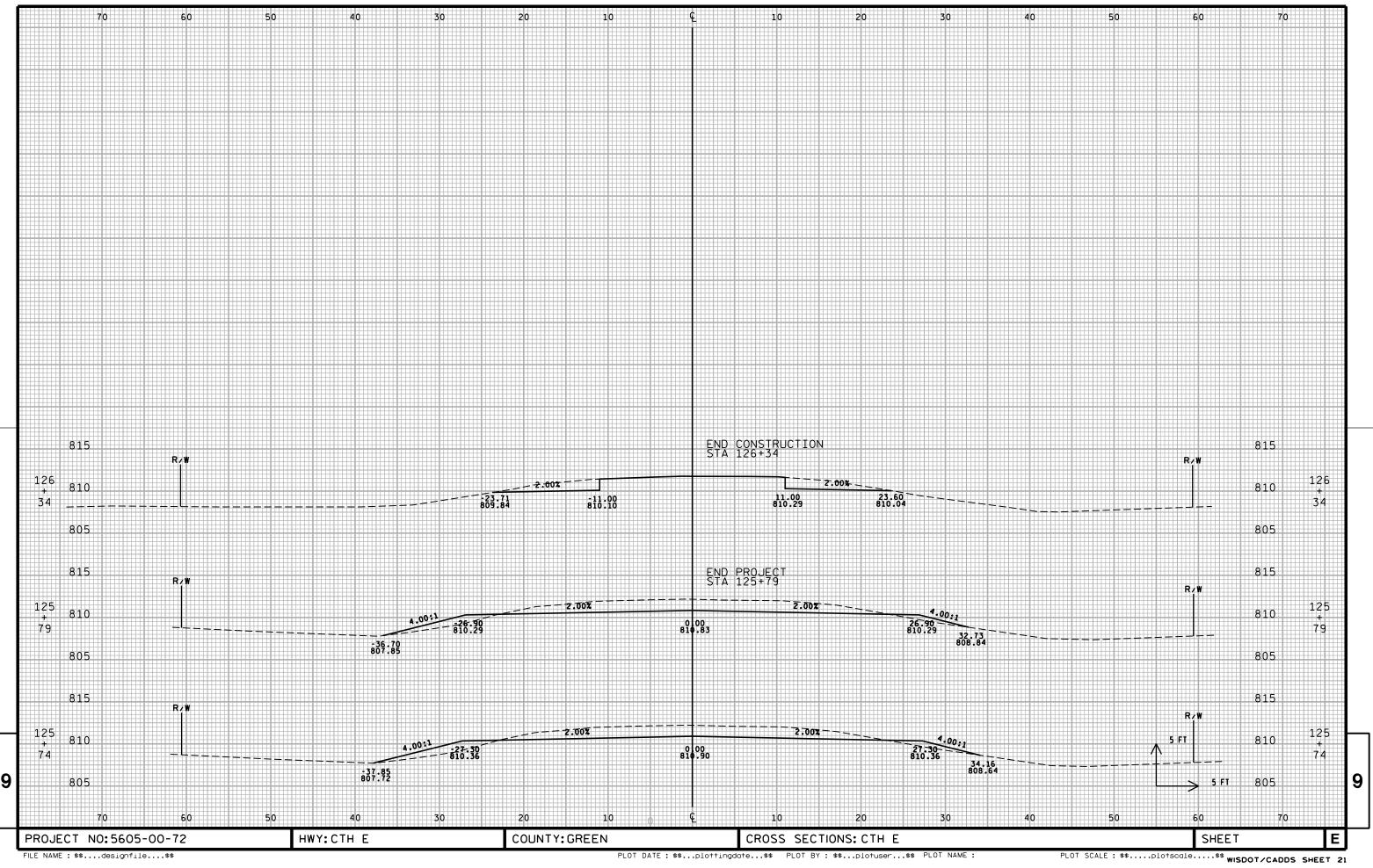
STATION	Real Station	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
			Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.25	Mass Ordinate
B-23-170											
123+87	12387		38	0	34	0	0	0	0	0	0
124+23	12423	36	38	0	34	51	0	45	51	57	-6
124+48	12448	25	36	0	37	34	0	33	85	98	-13
124+61	12461	13	37	0	43	18	0	19	103	122	-19
125+14	12514	53	42	0	58	78	0	99	181	246	-65
125+74	12574	60	48	0	13	100	0	79	281	344	-63
125+79	12579	5	49	0	10	9		2	290	347	-57
125+79	12579	0	20	0	10	0	0	0	281	344	-63
126+34	12634	55	20	0	0	61	0	14	351	364	-13

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PROJECT NO:5605-00-72 HWY:CTH E COUNTY:GREEN EARTHWORK SHEET E









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